Carolina Country

January 1980

EMCs Caught In The Middle
See Pages 10-12

Viewpoint

Energy Conservation's Catch-22

It might be called energy conservation's Catch-22.

The label may be unfamiliar, but many consumers in North Carolina and across the country are becoming well-acquainted with this principle—or soon will be.

It takes the form of a nasty little string attached to conservation's noble cause. It works like this:

You find yourself squeezed by the rising cost of living and make up your mind to do something about it. There's nothing you can do about the fixed costs you face, so you zero-in on some costs you can reduce, particularly energy expenses. You weatherize your home, turn down the thermostat, leave rooms unheated, put in a stove or energy-efficient fireplace system to use firewood you've cut yourself—all in the interest of saving energy and money.

Pretty soon, you begin to see some results—your efforts have paid off in lower fuel and electric bills. But, many of your neighbors and friends are doing the same things and they, too, are using less energy.

That's when conservation's Catch-22 rears its ugly head.

With all this conservation going on, your electric supplier—private utility, municipal system or electric cooperative—soon finds itself in a financial bind. Fewer kilowatt hours of electricity are being sold and revenues are declining while inflation is raising the cost of doing business.

The supplier can't do anything about its fixed costs, either—and there are limits to the operating economies that can be taken.

As a result, the supplier has no choice but to increase revenues by raising the price of each kilowatt of electricity.

This means that you and your neighbors will soon find that your conservation efforts have brought higher electric rates and little or no overall savings in dollars.

See related story, Pages 10-12

All your "best-laid plans" have come to naught, right? Not entirely.

Perhaps you haven't achieved your original goal of reducing your energy expenses, but loot at what your have achieved:

- Your home is now more energy-efficient than ever—and that means it'll require less energy throughout its lifetime, whatever the costs may be.
- You and your family have probably learned a lot about yourselves—that you'd been careless and wasteful about energy use in th past, and that you can get along qui well using far less.

These achievements can't b translated into dollar values, but, whe coupled with those of your energ conscious neighbors across th country, they will diminish the dra on the world's limited energ resources.

And that could have importa implications for our children and the children, who may—or may not—hav new technologies to provide essenti energy for their world.

It is a lofty and sentimental view, course, but those future generatio may one day look back at ours, gratef that our vision wasn't totally blocke by wasteful habits, an unrelentir allegiance to comfort, mindle greed—and a principle that could b called conservation's Catch'22.

The Passing Scene

• Two recent news items suggest that the American Way c Divorce has taken on some new twists. One woman became so fe up with marriage that she's organizing a "Divorcees Anonymous, whose members would help one another overcome the occasiona inclinations to re-marry. In the worst cases, their antidote is to sen over a pot-bellied, balding man with a portable TV and a six-pack c beer to watch football all day. Meanwhile, a divorced man took advantage of hi bank's offer to provide checks of his own design and ordered a set imprinte with a photo of himself kissing his new wife. They're to be used exclusively fc alimony checks to his ex-wife.

• A $90,000 study of "behavorial determinants of vegetarianism" earned Golden Fleece award for the U.S. Department of Agriculture. Senator Williar Proxmire said he singled out the USDA research project because "this study i just not meaty enough to warrant such an expenditure of federal funds. Th taxpayers may, in fact, be getting something for their money which is neither fis nor fowl."

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Carolina Country

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Kemp Ward/Associate Editor **Patty Shelley**/Staff Writer
Milly Alford/Editorial Assist. **Patricia Harrison**/Graphics Assi

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OR NORTH CAROLINA
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EMBERS

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- PAYS IN ADDITION TO ANY OTHER INSURANCE... WORKMEN'S COMPENSATION... VETERAN'S HOSPITAL... MEDICARE

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Please Print Name

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City Town State Zip

List ages of those you want information for | Male | Female | Children

NC-1 Age Age Ages

77 Towns Cited for Efforts To Attract New Industry

A total of 77 small North Carolina towns have been named winnners in the Governor's Community of Excellence Award Program, signifying that each has taken major steps over the past year to attract new industry.

The awards were presented to officials of each community recently by Gov. Jim Hunt in ceremonies at Raleigh.

In addition, each winner will get road signs proclaiming the award.

The whole idea of this is to assist small communities with what they need to get ready for industry.
—John Radford
Governor's Small Community Economic Development Task Force

"The whole idea of this is to assist the small communities with what they need to get ready for industry," said John Radford, deputy director of the Governor's Small Community Economic Development Task Force.

To qualify for the award, each town has to meet some stringent requirements, which takes a lot of time and effort. The state, of course, stands ready to lend assistance, Radford said.

In addition, all the winners get special promotion by the N.C. Dept. of Commerce when an industry comes looking for a place to build a plant.

The program has accomplished a lot of good for the towns—and the state, the governor said.

The program is available only to towns with fewer than 15,000 residents and only if the town has some industrial sites ready for immediate use. An applicant must also have a functioning economic promotion organization, a development corporation able to finance construction of industrial buildings, a detailed community profile and up-to-date brochure pointing out community facilities and services, a functioning planning commission, a knowledgeable development team and an organized and effective clean-up/fix-up campaign.

This year's winners are listed in the box below.

Ahoskie
Andrews
Apex
Bakersville
Beulaville
Bladenboro
Candor
Carrboro
Chadbourn
Cherryville
Claremont
Clarkton
Clinton
Dunn
Edenton
Elizabeth City
Elizabethtown
Ellerbe
Enfield
Farmville
Four Oaks
Franklin
Fuquay-Varina
Granite Falls
Hamlet
Henderson
Hendersonville
Hertford
High Shoals
Hudson
Jefferson
Kenansville
LaGrange
Lincolnton
Magnolia
Marshall
Maysville
Morehead City
Mount Airy
Mount Olive
Murfreesboro
Murphy
Newport
Pamlico County
Pinetops
Plymouth
Pollocksville
Princeton
Red Springs
Reidsville
Rich Square
Richlands
Roanoke Rapids
Rockingham
Rose Hill
Roxboro
Scotland Neck
Selma
Siler City
Smithfield
Snow Hill
Sparta
Spruce Pine
Stanley
Sylva
Tabor City
Trenton
Valdese
Wallace
Warsaw
Washington
Wendell
West Jefferson
Woodland
Whiteville
Williamston
Zebulon

Joe Seme's "Watauga Spring House"

Color Prints Available

"Watauga Spring House," the Joe Seme watercolor which is reproduced on the cover of this issue of *Carolina Country*, is available as a limited edition print which was prepared under the artist's supervision.

The borderless prints are on heavy stock and measure 8½ by 11 inches.

Each is signed and numbered. $15, including taxes, postage and handling.

For your copy, fill out the coupon below and mail it to **Joe Seme Print, P.O. Box 27306, Raleigh, N.C. 27611.**

Please send me _____ Seme Prints
(Number)
I've enclosed $ _____

Name _____
Street or Rural Route _____
City _____
State _____ **Zip** _____

This is a catalog of almost 400 varieties and assortments of fruit trees, shade trees and plants. It's also a planting and growing guide. Free from Stark Bro's.

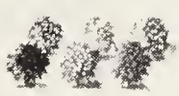
Our famous Red Delicious and Golden Delicious --the world's two most popular apples--have been improved and are now available on dwarf and semi-dwarf size trees. For eating out of hand right off the tree, in favorite desserts, even canned or stored, our Red & Gold team gives you and your family the best all-around flavor.

Grow full-sized, full flavored fruit on trees that grow only 8-to 10-feet high. Stark Bro's special dwarfing procedure affects only tree size. Fruit is as big — often bigger — than regular trees. Trees yield earlier, usually within just two years after planting.

"I'm enclosing pictures of a dwarf Starking Delicious Peach Tree we purchased in March of last year which bore 75 beautiful peaches this July. We now have a total of 32 dwarf apple, peach, cherry, pear, and apricot trees in our yard, and have just recently placed an additional order. With the past success we have had with your trees we are proud to say that they are "Stark Bro's Trees."

Mr. Ervin Huebner
Columbia, Illinois

Have 12 weeks of fresh fruit in a 10-ft. x 20-ft. area of your backyard- a space about the size of the average living room. Grow full-size apples, peaches, pears, nectarines in a "postage stamp" orchard of dwarf-size trees.



11 varieties of pears you can grow on dwarf-sized trees. 10 varieties you can grow on standard-size trees. Full information on where they grow best, when to plant, when to pick. Even details on how you can **espalier** and create your own outdoor living decorations.

Map in catalog helps you make sure the varieties you choose are right for your area.

The description with each variety in the catalog tells you what to expect from what you grow. And each description tells you in which zones the variety grows best. To find out exactly which zone you live in, we've included an easy-to-follow Zone Map like the one shown below.

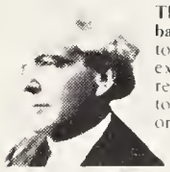
23 different varieties of hybrid tea, floribunda, and climbing roses. Many patented varieties like those from the famous gardens of Delbard-Chabert. And many other exclusives, available only from Stark Bro's.

Special section on heavy-yielding, early ripening fruit trees with high resistance ratings. Ideal varieties for organic gardeners.

Satisfied Customer Writes:

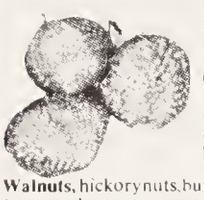
"... the Starkspur Golden Delicious and Starkrimson Delicious were loaded this year... some apples weighed more than ¾-lb. ... I'm extremely happy that I selected Stark Trees..."

Flynn H. Bach
Pryse, Kentucky



The famous Luther Burbank selected Stark Bro's to continue his important experiments. We pass the results of his research on to you through the superior varieties we offer.

Free 40-page planting and growing guide with every order. Gives full information on the best ways to get the most from your trees and plants. Whether you're a beginner or an old hand at growing, you'll find it filled with helpful tips and suggestions.



Pick fresh berries in your yard. Stark Bro's robust berry plants make growing easy and fun. Catalog features healthy, heavy-bearing, certified strawberry plants, delicious raspberries, blueberries, and blackberries.

Walnuts, hickory nuts, butternuts, chestnuts, pecans, on your own trees. Make delicious pies or dessert toppings. Have nuts for parties, special occasions or everyday.

Stark Bro's Nurseries & Orchards Co.
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Louisiana, Missouri 63353

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New Free Catalog

Features almost 400 varieties and assortments of fruit trees, shrubs, roses, nut trees, shade trees, vegetable seeds, and other nursery stock for the home gardener. Use this coupon and send for yours today.

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Mrs.
Miss _____

Address _____

City _____

State _____ Zip _____

Appliance Labels To Give Energy Efficiency Ratings

Within about six months, buyers can start looking for yellow and black "Energy Guide" labels on seven types of household appliances as a result of a federal rule published in November.

The labels will show the energy-efficiency ratings of comparable appliances and estimates of the yearly energy costs for the appliance. They will be affixed to refrigerators, freezers, dishwashers, clothes washers and water heaters and must be displayed for room air-conditioners. Home furnaces will carry labels directing prospective buyers to an energy fact sheet, which the manufacturer must provide.

While more efficient appliances may have a higher initial purchase price, their annual energy cost would be lower. Since many major household appliances now have an average life-expectancy of ten years or more, the consumer could realize considerable savings in energy costs over the life-span of an energy-efficient model.

Reducing household energy use by 20% can save more than half a billion barrels of oil equivalent by 1985.

The seven appliances included in the labeling program account for 78.2% of all the energy consumed in American homes, or the equivalent of 2.3 billion barrels of oil each year.

A federal appliance label program is required under the 1975 Energy Policy and Conservation Act. It is jointly managed by the Department of Energy and the Federal Trade Commission. The new rule supersedes all state and local rules and places the responsibility for labeling on the appliance manufacturers.

Joe Seme Painting Featured on Cover

Our cover this month is a reproduction of an original watercolor by Joe Seme of Linville, titled "Watauga Spring House." The painting was originally reproduced on the cover of *Mountain Living* magazine in 1978. Other Seme works are featured on Pages 8 and 9.

A signed and numbered print of the *"Watauga Spring House"* may be purchased through *Carolina Country*. See ad, Page 4 for details.

Carteret-Craven EMC Awarded $3.1 Million REA Loan

Carteret-Craven Electric Membership Corporation, Morehead City, has been awarded a $3.1 million loan by the Rural Electrification Administration to finance 70 percent of an expansion project.

It involves adding service to 1,800 additional consumers, 72 miles of distribution lines, additional headquarters facilities and various system improvements. The remaining 30 percent of the project will be financed through loans from the National Rural Utilities Cooperative Finance Corporation.

On completion of this project, the EMC will be serving 17,938 consumers over 1,038 miles of line in portions of Carteret, Craven, Jones and Onslow Counties.

Five 4-H Clubs Get Youth-Aging Awards

Five Tar Heel 4-H Clubs have been named state winners in a "Youth Looks at Aging" contest.

The winning clubs were cited for outstanding involvement with their grandparent generation, according to Isabelle Buckley, extension specialist in aging at North Carolina State University.

The winners are Iron Duff's Busy Bees 4-H Club, Haywood County; Arcadia Achievers 4-H Club, Davidson County; Mt. Zion Conquerors 4-H Club, Stanly County; Newton's Crossroads 4-H Club, Sampson County and Thurmond 4-H Club, Surry County.

Clubs receiving honorable mention for outstanding achievement are Hoke County's Super Senior Teens; Kenansville-in-Action 4-H Club, Duplin County and White Marsh 4-H Club, Columbus County.

The five winning clubs receive engraved plaques from the American Association of Retired Persons (AARP), the sponsor for the contest. The N.C. Agricultural Extension Service conducts the program.

Miss Buckley said the purposes of the "Youth Looks at Aging" Program are to promote better inter-generation understanding and communications, to promote youth sensitivity to the needs of others and to encourage youth action on needs of their elders.

Nineteen 4-H clubs submitted records, based on evidence of relationships developing and continuing between youth and the elders in community affairs.

Energy Course Offered By UNC-CH Extension

"Energy and Man," a new correspondence course examining energy concepts, resources and policy, is being offered by the University of North Carolina at Chapel Hill division of extension and continuing education.

The course was written by Dr. Donald Huisingh and Jerry Kohl of N.C. State University and offers three semester hours credit from that institution. It is available through the independent study by extension program and was developed with a grant from the N.C. Department of Commerce.

"The course is intended for teachers, students, civic leaders and others interested in learning more about the global nature of energy

problems and the need for energy conservation," said Jim Broomall, independent study by extension program coordinator.

Educators may use the course to fulfill recertification requirements, he said.

Tuition for the course is $80, and there are additional charges for books and postage. Students are allowed 13 months to complete "Energy and Man," with a six-month extension available.

For more information or to enroll in the course, contact Independent Study by Extension, 121 Abernathy Hall 022A, UNC-CH, Chapel Hill, N.C. 27514, (919) 933-1104.

Directors Re-elected At EMC Annual Meetings

Seven incumbent directors at two North Carolina Electric Membership Corporations were re-elected during the co-ops' recent 1979 Annual Meetings:

- **Carteret-Craven, Morehead City**—Re-elected were W. J. Wynne Jr. of Havelock; Monroe Gaskill of Cedar Island and John D. Young of Stella.
- **Tideland, Pantego**—Re-elected were Malvin Respess of Rt. 1, Pantego; George Wilkes of Ocracoke; George Lupton Jr. of Arapahoe and Leon Ballance of Inglehard.

N.C. Ag Department Names First Energy Coordinator

Warren V. Rock has been named energy coordinator for the N.C. Department of Agriculture, a new position with the responsibility for working with other state government departments and the federal government on energy matters affecting agriculture.

Rock was assistant director of the State Energy Division for five years before accepting the new position.

One of Rock's top jobs will be working with state and federal officials to assure that Tar Heel farmers and agribusinesses get the fuel they need. He will also keep a close eye on proposed energy legislation, making sure the department has the input it feels necessary.

Rock accepted the task of helping develop the State Energy Division in 1974 shortly after retiring as a colonel in the U.S. Army, capping a 30-year military career. The North Carolina native has a degree in political science from the University of Nebraska.

Use Care In Felling Trees Near Co-op Power Lines

With Tar Heels across the state turning to increasing use of wood for fuel due to the high cost of heating oil, EMC officials are warning inexperienced tree cutters to use extreme care in felling trees near electric lines and other equipment.

When power lines are knocked down or other equipment damaged by falling trees, the cutter is exposing himself to a potentially dangerous situation while causing damage that could be expensive.

In addition, this could lead to lengthy power outages, which can be quite costly because incidents of this type are more likely to occur on weekends, when repair crews are paid overtime.

Individuals who are responsible for damage of this sort will be expected to pay for the repairs, according to EMC spokesmen.

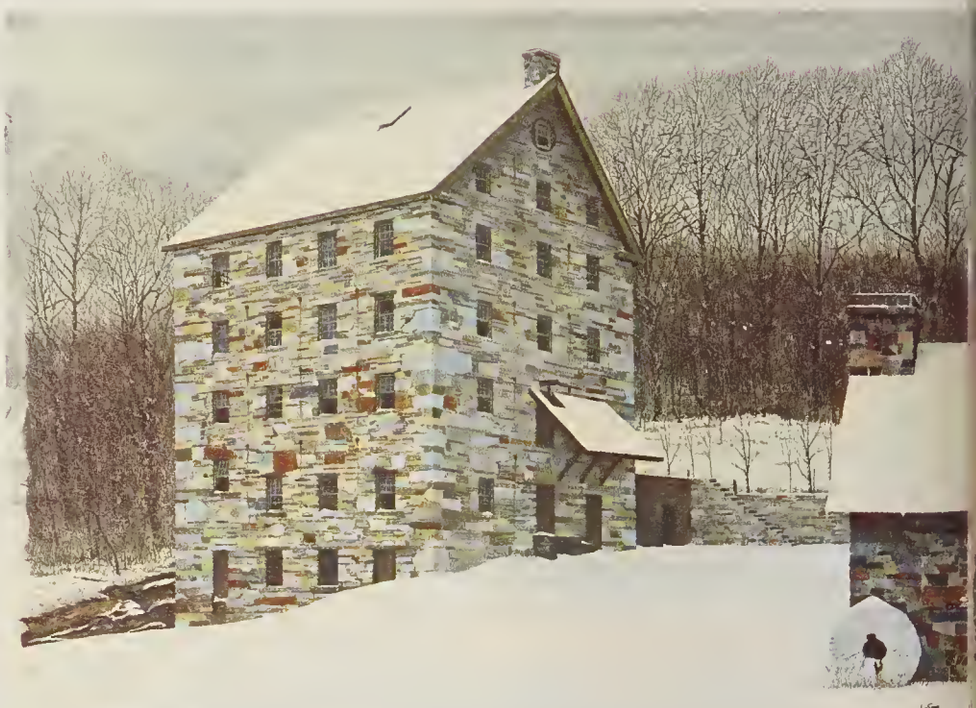
If you are interested in cutting trees near power lines or related facilities, call your local EMC office for assistance.

Home Folks

The 1979 North Carolina Awards, considered the state's highest honor, were presented Nov. 27 to **Archie K. Davis** of Winston-Salem, former chairman of the board of Wachovia Bank and Trust Co., and **John D. deButts,** Greensboro native and former head of American Telephone and Telegraph Co., for public service; journalist-author-humorist **Harry Golden** of Charlotte, for literature; **Dr. Walter Gordy** of Durham, founder and head of the Duke University Microwave Laboratory, for science and veteran journalist **Sam Ragan** of Southern Pines, first secretary of the N.C. Department of Cultural Resources, for fine arts. . . . **James M. Hubbard,** executive vice president of the statewide organization of Electric Membership Corporations, has been elected to the 25-member board of directors of the N.C. Agribusiness Council. . . . **Hernando F. Palmer** of Smithfield, an agricultural extension agent in Johnston County, has been elected the first minority president of the North Carolina Mental Health Association. . . . *Carolina Country* Editor **Owen Bishop** has won a first place award for news writing in a regional communications contest sponsored by District 2 of the International Association of Business Communicators. The contest was open to professional communicators from 10 Southern states and Puerto Rico. The award recognized a story on the dedication of the windmill at Boone, which appeared in the magazines's August issue. . . . Three Tar Heel agriculture extension employees were honored recently by the National Association of Extension 4-H Agents. The organization's Distinguished Service Award was presented to **Richard W. Peterson,** Randolph County extension agent, 4-H, **James Stuart,** Rockingham County extension agent and **Reagan Ammons,** Polk County extension chairman.

The Morning After

The artist describes his paintings:
WATAUGA SPRING HOUSE—"The spring house on a mountain farm played such an important role in farm life before electricity."
THE MORNING AFTER—". . .it was one of those 'someday, maybe. . .' fragmentary ideas until one morning I passed by at exactly the right moment."
SECOND MANASSAS—"When I first drove up to it, it was like seeing the Grand Canyon for the first time. It was an incredible feeling."
LATE FALL AT WINEBARGER'S MILL—"I can sit next to an old mill and imagine the horse-drawn wagons, the miller covered with flour dust, small boys skimming rocks on the mill pond."
FAULKNER COUNTRY—". . . the whole thing came together when I found the old carved wooden bears under a pile of rotting wood on an abandoned farm."



Second Manass

Joe Seme

Prints of *The Morning After* and *Collector's Choice*, which is not reproduced here, are currently being marketed by the artist. For more information, write to him at Nether Stone Studio, P.O. Box 64, Linville, N.C. 28646.

"You Have To Get Close To The Subjects"

A day in the North Carolina mountains in 1968 combined with ideals passed on from a college instructor—and a lot of talent—have brought Joe Seme of Linville to his current position as one of the nation's outstanding realist artists.

He's entirely self-taught.

He credits his success to a sense of discipline instilled by Pulitzer Prize-winning author Michael Shaara, who taught him creative writing at Florida State University.

Feeling that "in order to be a good painter, you have to get close to the subjects," he paints only those subjects to which he has an emotional attachment.

A native of New Jersey, Seme went to Florida State to study writing, and turned to painting quite by accident some years later. After graduation, he visited the North Carolina mountains, and "one day in the mountains convinced me that I was in the right place, so I went back to Tallahassee and loaded my car."

Three months later he was drafted and spent two years in the Marines, but returned to the mountains accompanied by his wife.

They opened a nightclub and Seme began dabbling in watercolor for diversion. A New York art critic saw his work at the club, and suggested that he might be able to earn a living as an artist. Two weeks later, he began to paint on a full-time basis.

Seme's work has found a place among such corporate collections as the North Carolina National Bank, Integon Corp., Abitibi-Price and others. He has exhibited at the Mint Museum in Charlotte, N.C., Museum of Art and the Southeastern Center for Contemporary Art. He has also been a finalist in the *American Artist* competition.

Late Fall at Winebarger's Mill

Faulkner Country

EMCs Caught In The Middle

"The candle is burning at both ends and we're standing in the middle hollering, 'Fire!' "

That comment from the manager of one North Carolina Electric Membership Corporation graphically summarizes the situation facing many of the state's EMCs as they wrestle with the economic consequences of energy conservation, double-digit inflation and 1979's mild weather.

On one side, the flame represents reduced revenues due to lower levels of power usage—the result of consumers' efforts to conserve and the milder temperatures of the past summer and early winter.

On the other, the flame symbolizes the steadily rising cost of doing business.

Caught between the two, many EMCs are finding that they must either raise their rates or face serious financial injuries.

Some have already implemented higher rate schedules and others are gearing up to follow suit. A few have tightened their belts, leaving jobs unfilled and postponing system improvements to reduce operating costs.

One of these hardest hit co-ops is Halifax EMC, Enfield, where a 4.9 percent rate hike went into effect last summer and another may be necessary next spring.

Manager James Ellen, who was responsible for the "burning candle" metaphor, said the EMC's kilowatt hour usage for the first 10 months of 1979 was only 3 percent ahead of 1979. They'd expected growth of about 6 percent.

"The co-op has long-term debt and there's no relief for that," he said. "And we have to maintain sufficient staff to keep operating. So, we're going to have to spend X amount of dollars whether we sell one kilowatt hour of electricity or one million."

He added: "We were actually operating at a deficit early in the year. We cut back on operations, hoping things would level off."

The rate hike was "only a stop-gap measure," said Ellen, who is now overseeing a cost-of-service study that could show the need for another rate increase.

Meanwhile, any increases in the cost of wholesale power from Virginia Electric and Power Co. would also have to be passed on to the co-op's member-owners.

The same kind of squeeze is affecting Halifax's neighboring co-op, Roanoke EMC, Rich Square—with the same result.

There, kwh usage "has been running neck-and-neck with figures from a year ago, when we've normally experienced a growth of between 10 and 17 percent," said Eugene Brown, Roanoke's assistant manager.

Although a rate hike w implemented in September, th co-op is expecting to finish th year with lower margins as a resu of declining revenues and highe costs.

That same one-two punch h had even more severe consequen ces for South River EMC, Dunn.

"It's just killing us," sa Manager Marvin Marshall.

The system is operating wi revenues that were $400,000 $600,000 below expectations f the first 10 months of the year. offset that shortfall, the co-op h implemented a 3 percen surcharge on all bills going out January.

"This will get us over the hum until we can get a better idea when we'll have to adjust rat because of higher wholesa power rates from Carolina Pow and Light Co.," Marshall said.

The co-op has also cut back c construction and other operatin costs—and has institute conservation measures that hav brought a 15 percent reduction its own office power bills.

The surcharge, Marshall sai was the first rate hike the syste has had in recent history that w solely to cover operating cost with no power costs beir involved.

At least two other EMCs hav passed the same milestone: Blu Ridge EMC, Lenoir and Unio EMC, Monroe.

Blue Ridge is experiencing a percent growth in kwh usage th year instead of the 7 percent th

Text by Owen Bishop
Art by Lynne Seba

was anticipated. That has produced a revenue shortage that'll be covered by a 7 percent increase in rates, according to Wayne Keller, manager of the operations department.

"This is the first time in several years we've had a rate increase that was 100 percent due to higher internal costs."

At Union EMC, a 4.6 percent rate increase taking effect in January represents the first rate hike since 1974 that's entirely the result of higher operating expenses, said Manager Philip Wally.

"We've been fortunate that we're still having a good rate of growth," he said, adding that he expects the system to have a net gain of about 1,200 meters for the year. That trend is off-setting the trend toward greater conservation among the co-op's consumers.

"Without that growth, we'd really be hurting."

Rate increases are also going into effect in January at Randolph EMC, Asheboro and Haywood EMC, Waynesville, where kwh usage has fallen below expectations, as it has in other EMCs. Again, mild weather, inflation and conservation are to blame.

"If these trends continue, we may have to revise rates every year to keep up," said Haywood Manager John Browning.

At Randolph, Manager Bob McDuffie said the trend toward conservation has been a mixed blessing because consumers seem to lose their resolve to cut back during the hottest part of the summer and the coldest part of the winter, when the system experiences its peak demand.

As a result, the "demand charges" which are passed on to the co-op from its power supplier, based on the system's peak demand, continue to rise.

That situation poses problems anytime, but now they're being aggravated by the fact that usage—and revenues—are declining overall, McDuffie said.

"With these usage patterns, kilowatt hour sales are down, but because the power plants must still

(Continued on Page 12)

Consumers Taking Steps To Reduce Energy Use

Tar Heel consumers have stopped giving lip service to energy conservation and are doing something concrete about it on a regular basis, according to EMC officials across the state.

And the most popular of these concrete measures seems to be the shift to greater use of firewood for heating.

At Blue Ridge EMC, Lenoir, a recent study of the system's electrically-heated homes showed that 50 to 60 percent of the homeowners had installed some kind of wood-burning fireplace system or wood heater.

"That, of course, doesn't give us any idea how many are depending more on the standard, open fireplace," said Wayne Keller, manager of the operations department at Blue Ridge.

Edward E. Brown Jr., manager of Albemarle EMC, Hertford, said he has made no formal study of the situation, but it's obvious that wood is becoming a popular source of heat.

"A lot of our people have access to wood of their own. Otherwise, they might not be using it quite so much," he said.

Throughout the service area of Crescent EMC, Statesville, "lots of folks have a pile of firewood stacked in their yards," said Manager Donald Rice. "For awhile, people were just paying lip service to energy conservation, but now they're taking steps because it's hitting them in their pocketbooks."

The fly in this conservation ointment is that it presents revenue problems for the EMCs—partly because consumers haven't learned to conserve when it counts most, during periods of peak demand.

"What it amounts to is that they're conserving only as long as it doesn't hurt," said Allen Holt, manager of administrative services at Randolph EMC, Randolph.

This means they cut back on air conditioning until the heat gets most uncomfortable and conserve on heat until the cold gets most uncomfortable. Thus, the peak demand keeps rising—and so does the cost of the bulk power the co-ops buy from the private power companies, who must build and maintain facilities to serve that peak demand.

Brown pointed out that consumers may be conserving as a means of reducing their energy costs, but the resulting decline in revenues will eventually force the per-kwh cost up—and the consumer "may end up paying about the same amount."

Still, there's a "patriotic" value to the effort because it reduces the nation's dependence on foreign oil and cuts down on the drain upon the limited world energy resources.

"With these trends, we're simply dealing with variables we've never had to deal with before," he added.

Brown's counterpart at Edgecombe-Martin County EMC, Tarboro, agrees: "I think the next three to five years will be crucial. I expect these trends will mean that our way of life will change drastically within that period," said Rudolph Sexton.

James Ellen, manager of Halifax EMC, Enfield, said conservation seems to be a pervasive "mood" among that system's consumer.

"People have wasted electricity in the past because it was so cheap. Now, they're being more judicious with it. At least I don't hear complaints about the value received. Consumers don't seem to question that it's worth the cost.

"They must be learning that they're just going to have to pay more for less."

(Continued from Page 11)

be built, maintained and fueled to provide capacity for these peak demands, the overall cost of generating, transmitting and distributing electricity is only nominally reduced.

"This means that the costs must be spread over fewer kilowatt hours—and that means the cost per kilowatt hour will be higher. This is why we so often hear complaints from consumers who have conserved energy but their bills keep going up because the kwh cost keeps rising."

Albemarle EMC, Hertford, is coping with the same sort of usage patterns: "The peaks keep going up and we don't have the kwh sales to support the rising demand charges," said Albemarle Manager Edward E. Brown Jr.

"Our financial intergrity has declined every month for the past seven or eight months. And we have no reason to believe there'll be a turnaround."

The system is now in the midst of a cost-of-service study, which Brown expects to demonstrate the need for "rate relief."

Other EMCs surveyed are coping with similar strains, but have thus far been able to avoid raising rates:

Surry-Yadkin, Dobson—Manager Kelly Hutchins said kwh usage is down, almost matching the figures for 1978—although a 3 or 4 percent increase had been anticipated. "The weather has played a role, but I'd say it's mainly cutbacks by the consumers."

Rutherford, Forest City—"There are some signs of conservation, but the weather is a big factor," said Manager L. T. Gibbs. Kwh usage is about 2 percent ahead of last year, five points below the expected level.

Crescent, Statesville—"There's no doubt that conservation is going to have a real bearing on the situation, but because of the mild weather it's hard to say how much," said Manager Donald Rice.

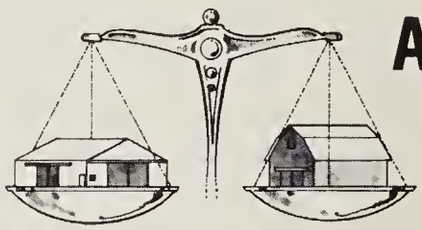
Pee Dee, Wadesboro—"Our folks are cutting back, but the weather is such a key factor. People have finally waked up to the need for energy conservation," said Manager H.H. McKinney.

Four County, Burgaw—Manager L.P.(Bill) Beverage says consumers are cutting back on heating, making a "determined effort to save fuel oil because it's so expensive." The co-op's power usage is down, but he believes that's due largely to the weather—with conservation having a minimal effect.

Pitt and Green, Farmville—Kwh usage is down, but peaks continue to climb—partly due to the fact that this system serves a high concentration of bulk tobacc barns, which operate around th clock during the curing season. A cost-of-service study is nov underway, which is almost sure t call for a rate increase, accordin to Manager J.D. Patterson.

Tri-County, Goldsboro—"Ou kwh usage has declined slightly but I think that's attributable to th weather," said Manager Bol Holmes.

Edgecombe-Martin County Tarboro—"We're in a no-growt year and I'd say that's 75 percen due to conservation and 2 percent, to the weather," sai Manager Rudolph Sexton.



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By Census Bureau

Farm Energy Survey Scheduled

Report forms for a farm energy urvey to provide current data on gricultural energy consumption nd needs will be mailed to armers and ranchers in January by he Bureau of the Census, U.S. Department of Commerce.

The survey is a follow-up on part f the 1978 Census of Agriculture onducted earlier this year. A ample of 30,000 farm operators as drawn from the nationwide ensus mail list for the survey.

Data on gasoline, diesel oil, lectricity and other energy onsumption by farmers will be ollected. The survey is being onducted at the request of the .S. Departments of Agriculture nd Energy. Census Bureau fficials say the information equested will provide the basis for mely and adequate distribution f fuel to farmers. Data for 1979 erived from the survey will be ublished in 1981 for use by farmer nd business organizations, the ongress, and federal and state encies.

Survey questions also will be ked on energy conservation actices and expenditures; fuel urces; crop drying and curing cilities; farm building heating, air nditioning and water heating; reage owned or leased; crops oduced and sold and sales of estock, poultry and their oducts.

In addition, a survey of the nancial characteristics of erators and owners of farm land produce needed information r committees of the Congress ll also be taken in January by the reau of the Census.

For this survey, two forms will be ailed: one will be to 40,000 farm erators and a second to the ndlords of the same farms.

The first will have questions on nd ownership as well as the ancial status of the operators. dditional characteristics of these ner-operators will be obtained matching to corresponding 1978 Census of Agriculture reports.

The landlord form will provide statistics on characteristics on both farm-operating and nonfarm-operating landlords and will seek in-depth data on the occupation of the owners, number of tenants, method by which the land was acquired, citizenship of owners, and type of ownership. For all farm owners, a separate tabulation will be made for those whose income is primarily from farming versus those whose main occupation is other than farming.

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Tar Heels Win National 4-H Honors

North Carolina's 40-member delegation won 16 national honors and $16,000 in educational scholarships here Nov. 25-29 at the 58th National 4-H Congress.

The national winners and their programs were Tammy Kelly, Newport, achievement; Mary Ann Cotton, Albemarle, automotive; Janna Brendell, Waynesville, clothing; Alan Burns, Wingate, conservation of natural resources; Angela Burnette, Rt. 5, Mebane, dairy foods; Lorelei Aldridge, Rt. 5, Kinston, fashion revue; Jill Nash, Rt. l, Wingate, food conservation and safety; Jean Myers, 2780 S. Stratford Rd., Winston-Salem, food preservation.

Also Steve Hardee, Rt. 4, Monroe, forestry; Debbie Davis, Rt. 4, Monroe, gardening; Janice Ivey, Rt. 2, Gibsonville, home environment; Scott Walker, Rt. 3, Raleigh, horse; Robert Sherrod, 221 S. Bragg St., Monroe, leadership; John Jones, Rt. 1, Walnut Cove, Photography; Mitzi Sims, Rt. 7, Monroe, veterinary science, and Emmett Robinson, Marshville, wood science.

Each winner receives a $1,000 educational scholarship. Dono for the scholarships and trips a some 40 business firm foundations, associations ar individuals who contribute mo than $1 million each year.

In addition, Jill Hubbard, 3 Truitt Dr., Elon College, w named one of 14 sectional winne across the nation in the 4-H bicyc program.

The event is planned by th National 4-H Council i cooperation with the Extensic Services of the land-gra universities.

Light Up A Life

More than 3,000 mentally retarded North Carolinians live in state institutions at Kinston, Goldsboro, Butner and Morganton.

These handicapped people, like all people, have a need for worship. Many now attend church services in make-shift facilities. More would attend if adequate facilities for wheel-chairs and carts were available.

Some of the retarded dream of having "a real church" with a pulpit and stained glass windows and an organ for church music.

That dream is shared by religious leaders of many denominations, by service and civic leaders, and by the staff people who work with the mentally retarded.

To realize that dream, an inter-faith effort is under way to raise $2 million to construct chapels at the four centers for the retarded.

That represents about $1 for every church member in North Carolina.

A dollar to light up a life or $2 million to build four chapels isn't much when you consider the comfort today and the hope for tomorrow they will provide people like. . .

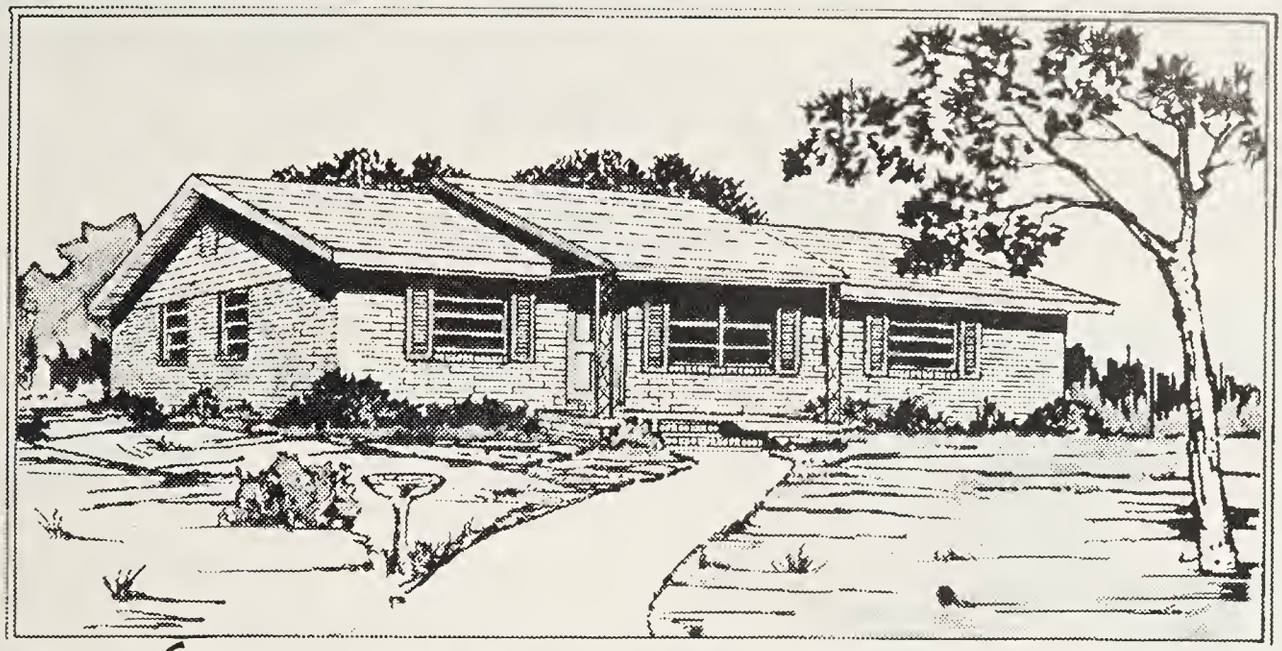
. . .The middle-aged man who knows "God keeps teenagers from being afraid of the dark."

. . . the blind and retarded youngster who calls on God to "watch out for my brothers and sisters."

. . . the multi-handicapped perso going into the hospital who grabs a chaplain's hand and pleads, "pray for me."

You can help to light up a life wi your prayers and your contribution

Contributions and requests for additional information should be addressed to **Chapels for the North Carolina Centers for the Retarded, Inc., P.O. Box 11099, Raleigh, N.C. 27604.**



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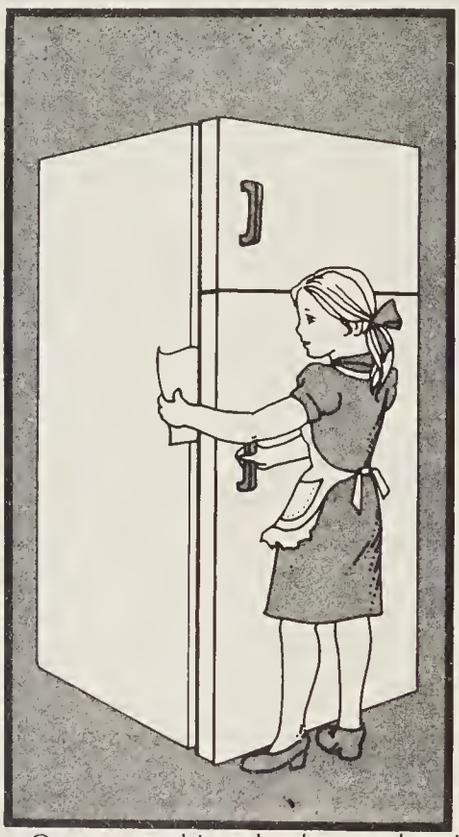
Tips For Making Your Refrigerator Energy Efficient

Your refrigerator consumes an estimated 750 to 1,400 kilowatt hours of electrical energy annually. That makes it one of the major energy-consuming appliances in your home. Here are some recommendations that will help you to determine if your refrigerator is operating as efficiently as possible.

Start by examining the gasket or seal around the refrigerator door to see if cold air is escaping. A simple test will tell you if the gasket is not doing its job of sealing the door tightly: Close the door on a piece of paper and try to pull the sheet of paper out. If you can pull it easily, your refrigerator probably needs a new gasket.



Check the temperature of your refrigerator, too. Place an outdoor thermometer inside the fresh food section of your refrigerator and close the door. After waiting 15 minutes, check the temperature. It should read between 38 and 42 degrees F (3-6 C). If not, adjust the temperature control. If your refrigerator has a separate freezer compartment, check the temperature there, also. It should be around 5 degrees F (-15 C). Colder-than-necessary temperatures waste energy.

Check the frost building in the freezer compartment. It should not exceed one-quarter of an inch. As a general rule, manual defrost refrigerators take less energy to operate than do automatic defrost refrigerators, but not if frost is allowed to build up excessively in the manual model.

Your refrigerator should be located away from heat sources, such as ranges. The motor housing and condenser coils should be kept clean, and unless your unit's designed to be built-in, it should be away from the wall an inch or two to allow air circulation around the compressor.

Once everything checks out okay, instruct your family on good habits in using the refrigerator. Let hot foods cool a bit before placing them in the refrigerator. Reduce the number of times the refrigerator has to be opened and never leave the door open longer than a few seconds. To thaw frozen foods, first place them in the fresh food section of the refrigerator so that, as they thaw, they can help cool the refrigerator.

If you are planning to purchase a new refrigerator, it is energy economical to buy one with a power-saver switch. Some refrigerators have heating elements in their walls or doors to prevent "sweating" on the outside. In most climates, the heating element does not need to be working all the time. The power-saver switch turns off the heating element. By using it, you can save up to 16 percent in refrigerator energy costs.

Weigh the benefits of a frost-free refrigerator against those which require manual defrosting. Although you will need to be sure you defrost them regularly, the manual-defrost models will cost less to purchase and will use less energy than those that defrost automatically.

If you choose the manual-defrost model of refrigerator or freezer, remember that frost build-up increases the amount of energy needed to keep the motor running.

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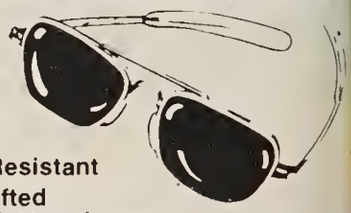

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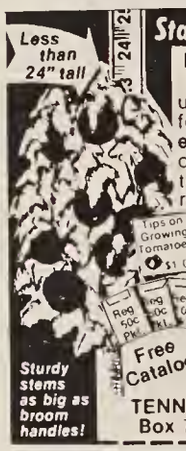

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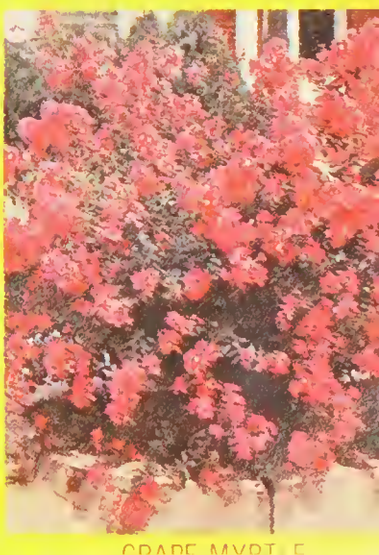

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PLEASE READ THESE INSTRUCTIONS CAREFULLY BEFORE PLANTING

PLANTING INSTRUCTIONS

Dig a hole large enough for all roots to be free in hole. Put loose dirt in bottom of hole. DO NOT wad roots; place plants a little deeper in ground than they grew. You can tell by looking at the plant where the soil line was before being dug.

It is good to put some peat moss, old straw, or old leaves in with the dirt at the time you plant. Keep the roots moist all the time before planting. Soak in water about (1) hour before planting. Cut off any broken root or branches.

Flowering shrubs will do better if you will prune top back one half. Be sure dirt is packed very firm. After this, water thoroughly; It is good plan to water frequently until growth starts, then also water through summer when dry.

Root plants branch each year from the roots and die down. When planting break off any stems. Do not expose roots to sun or wind.

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Chinese Elm, 12 to 18 in.
Green Weeping Willow, 12 to 18 in.
Red Scarlet Maple, 12 to 18 in.
Red Oak, 6 to 10 in.
Russian Mulberry, 12 to 18 in.
White Ash, 12 to 18 in.
Sugar Maple, 12 to 18 in.
Sweet Gum, 12 to 18 in.
Box Elder, 6 to 10 in.
Sourwood, 6 to 10 in.
Ginko, 6 to 10 in.
Golden Willow, 12 to 18 in.

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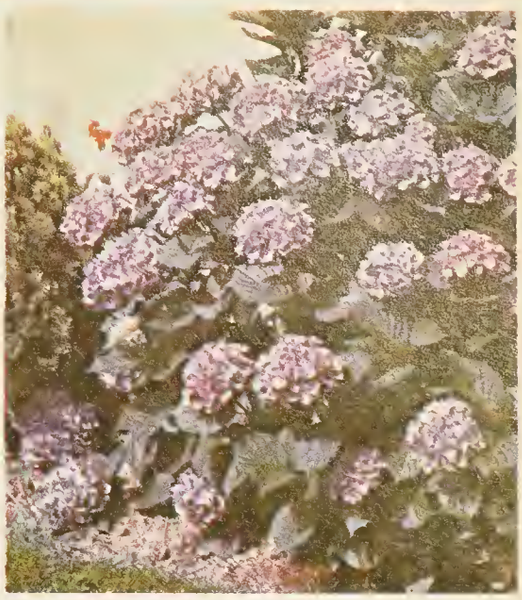
SWEET SHRUB
1 to 2 ft. . . . 99c ea. 10 for $9.50
This shrub has a confusing number of common names among which are "Strawberry Shrub", Carolina All-Spice" and several others. Glossy foliage and red-brown flowers in spring followed by seed-bearing husks. Ultimate height 5 ft.

ALTHEA—Red, Purple, White or Pink
1 to 2 ft. . . . 99c ea. 10 for $9.50
Covered with double rosette-like blossoms in August and September when few other shrubs are in bloom. Fine for specimens, hedges, or background in the shrub border Ultimate height 8 to 10 feet.

TAMARIX—Pink Flowers
1 to 2 ft. . . . 99c ea. 10 for $9.50
Upright shrub with feathery light green foliage Small pink flowers borne profusely on gracefully bending branches in May and June. Ultimate height 12 feet

MOCKORANGE—White
1 to 2 ft. . . . 99c ea. 10 for $9.50
This is the familiar "Mockorange." It grows to 6 to 8 feet, sometimes more The flowers come in May and June. Very fragrant creamy white which blossoms with a perfume that lingers on the air A fine shrub, standing hardships well, even the smoke and dust of cities.



BLUE HYDRANGEA
1 to 2 ft. . . . 99c ea. 10 for $9.50
Large cool-blue blossoms throughout the summer amid green leaves. The more acid the soil, the deeper blue will be the color. Maintain soil acidity by using aluminum sulphate. Grows 3-4 ft. tall in partial sun or shade.

DEUTZIA—White or Pink
1 to 2 ft. . . . 89c ea. 10 for $8.50
Vigorous grower. Double white flowers in May or early June. Splendid for backgrounds or grouping. Ultimate height 6 to 8 feet. Pink same as white.

ROSE OF SHARON—Mixed Colors
1 to 2 ft. . . . 69c 10 for $6.50
Covered with single rosette-like blossoms in August and September when few other shrubs are in bloom. Fine for specimens, hedges or background in the shrub border. Ultimate height 8 to 10 feet.

RED OZIER DOGWOOD
1 to 2 ft. . . . 89c ea. 10 for $8.50
6 to 8 feet spreading shrub with red twigs during winter. Creamy white flowers, followed by white berries, making it a useful year 'round shrub.

PINK SPIREA
1 to 2 ft. . . . 99c ea. 10 for $9.50
Forms a dense mass of growth Bright pink fluffy flower spikes in July and August Ultimate height 5 feet

FLOWERING SHRUBS 1 or 2 Years Old

RED BARBERRY
1 to 2 ft. . . . 1.29 ea. 10 for 12.50

Foliage bright red in spring, dull red in summer and brilliant scarlet in fall. For best coloring, plant in full sun. Ultimate height 4 feet.

HYDRANGEA P.G.
89c ea. 10 for 8.50

Mammoth flowers in August when few other shrubs are in bloom. The pinkish white flowers gradually deepen to a reddish bronze. The dried flowers are often used as winter bouquets. Fine for hedges, borders, groups, or as single specimens. Very hardy. Ultimate height if not pruned 5 to 6 feet.

FLOWERING QUINCE—Red
1 to 2 ft. . . . 99c ea. 10 for 9.50

Low growing shrub with dark green foliage. Bright orange-red flowers from April to May. Spicy fruits make fine jelly. Stands drought well.

FRENCH LILACS—Red, White or Purple
1 to 2 ft. . . . 2.49 ea. 10 for 23.98

The French or Hybrid Lilacs, named varieties of the species, Vulgaris, are due to the efforts of European and American hybridizers, and the results are a great improvement over the well known common Lilac. They have, in fact, placed the Lilac on a pinnacle in the family of flowering shrubs. Ultimate height 15 feet.

PERSIAN LILAC—Purple
1 to 2 ft. . . . 99c ea. 10 for 9.50

One of the most famous Lilacs, with arching branches and very fragrant pale purple flowers in rather loose broad panicles, opening late in spring. Ultimate height 6 to 8 feet.

PUSSY WILLOW
1 to 2 ft. . . . 69c ea. 10 for 6.50
4 to 6 ft. . . . 1.98 ea. 10 for 19.00

Large silvery catkins. Popular for indoor forcing in late winter and early spring as well as effective lawn and garden shrub.

GREEN BARBERRY
1 to 2 ft. . . . 99c ea. 10 for 9.50

Well known thorny plant, with small yellow flowers in spring, red berries and highly colored foliage in fall. Useful in foundation plantings, borders, and in hedges where it can be grown naturally or kept to a definite sheared size. Ultimate height 4 feet.

BRIDAL WREATH SPIREA
1 to 2 ft. . . . 1.29 ea. 10 for 12.50

A splendid worth-while shrub with fine, double white flowers, coming into bloom in May. Grows to an ultimate height of 6 feet.

BUTTERFLY BUSH—Purple or Pink
1 to 2 ft. . . . 1.29 ea. 10 for 12.50

Showy, fast growing shrubs producing many Lilac-like flowers on panicles 5 to 12 inches long from midsummer to frost. A beautiful shade of purple. Blooms the first year. Excellent cutflower subject. This plant often freezes to the ground during the winter, but will come up again and grow to an ultimate height of 4 to 5 feet. Attracts butterflies. Pink same as Purple.

BURNING BUSH
4 to 8 in. . . . 99c ea. 10 for 9.50

In fall the leaves turn a brilliant mirrow-bright crimson. A 4-5 ft. showpiece with unusual corky bark. Hardy in sun or partial shade.

OLD FASHIONED LILAC
1 to 2 ft. . . . 1.29 ea. 10 for

An old-fashioned favorite. Requires sunny spot. F good screen planting.

JAPANESE SNOWBALL
1 to 2 ft. . . . 99c ea. 10 fo

A rare and exceedingly beautiful species. Flowers globular heads, pure white, hanging long on the very choice and desirable shrub. Blooms in May. height 8 feet.

SPIREA ANTHONY WATERER DWARF—
½ ft. to 2 ft. . . . 99c ea. 10 fo

Upright medium low shrub with flat flower clusters red in mid-summer. Ultimate height 3 feet.

HYPERCIUM—Yellow, Collected
1 to 2 ft. . . . 69c ea. 10 fo

A brilliant mound of gold all summer. Dazzling flowers 2 to 3 inches in diameter on a low growing glossy green foliage. Fine for foundation planting 3 tall.

AZALEA—Red, White, Pink, or Purple
½ ft. . . . 1.29 ea. 10 for

By nature Azaleas are woodland plants. They love shade and acid soil. The roots, which are near the should be kept cool and damp, and never allowed out. Oak leaves are ideal for covering the ground them. Azaleas can be supplied in colors of red, pink. Ultimate height 6 to 8 feet.

SPICE BUSH
1 to 2 ft. . . . 99c ea. 10 fo

Handsome aromatic foliage with early yellow flowers leaves appear. Brightly colored red berries in autu

FLOWERING TREES 1 or 2 Years Old

LEAF PLUM
. . . 2.29 ea. 10 for 22.50
ft. . . . 3.29 ea. 10 for 32.50
aved flowering plum will add contrast, color and your lawn. Holds its deep rich color all season. oms in early spring, followed by ornamental fruits. Hardy anywhere. Attains 8 to 10 feet

LIA, SOULANGEANA
. . . 2.98 ea. 10 for 29.00
popular hard Magnolia. One of the first trees to ne spring. The delightful, fragrant blossoms ap- e the leaves. Blooms are large, often measuring 8 oss, purple-pink on the outside and white on the ws up to 15 feet tall.

ING CRAB—Red or Pink
. . . 2.49 ea. 10 for 22.50
. . . 3.49 ea. 10 for 32.50
lowering Crab has double rose pink blossoms Red Flowering Crab has vigorous red blossoms. ing they have clusters of small red Crab apples.

WERING DOGWOOD
4.98 ea. 10 for 47.50
. . . 7.95 ea. 10 for 75.00
Flowering Dogwood. Beautiful, deep ruby-red s up throughout the blooming season. Growth e tree similar to White and Pink Flowering Dog- erent only by having deep ruby-red flowers and in the new growth.

SMOKE TREE
1 to 2 ft. . . . 2.49 ea. 10 for 24.00
Also called Purple Fringe. It has small yellow-green flowers in May or early June which are of no consequence, but the fruits which form in middle of July are purplish in color and very dense and feathery, covering the tree, giving a handsome smoky appearance which lasts through late summer and early fall, and gives it its name of Purple Fringe Tree. Grows to a height of 8 to 15 feet.

JAPANESE FLOWERING CHERRY—White
3 to 5 ft. . . . 5.95 ea. 10 for 58.50
One of the many varieties of Japanese Flowering Cherries. Flowers typically white with fruits often black. Up to 30 feet high.

GOLDEN CHAIN TREE
1 to 2 ft. . . . 1.69 ea. 10 for 16.50
Rare low growing tree with long clusters of pure golden yellow Wisteria-like blossoms in May. Cloverlike leaves. Height 20 to 25 feet.

FLOWERING PEACH—Red, Pink
2 to 3 ft. . . . 1.98 ea. 10 for 19.00
3½ to 5 ft. . . . 3.29 ea. 10 for 32.50
The lovely double flowers of this variety are very showy and attractive. Its quick growing habit and beautiful flowers make it a most desirable lawn tree. Ultimate height 10 feet

DOGWOOD, PURPLE GLORY
2 ft. . . . 7.98 ea. 10 for 79.00
This plant is characterized by having foliage which is a waxy deep maroon to red-purple suffused over a light green background. This feature is present from the time the leaves appear in the spring and remains throughout the growing season.

PINK FLOWERING DOGWOOD
2 ft. . . . 4.98 ea. 10 for 48.50
3 to 5 ft. . . . 7.95 ea. 10 for 75.00
A most valuable low growing and colorful tree for the lawn. Before the leaves appear, the tree is literally covered with rose-pink flowers suffused with bright red. Grows up to 20 feet high. A gorgeous spectacle.

MIMOSA—Pink
3 to 4 ft. . . . 1.29 ea. 10 for 12.50
4 to 6 ft. . . . 2.49 ea. 10 for 24.00
SMALL ORNAMENTAL TREE WIDELY PLANTED THROUGHOUT THE SOUTH. Grows to blooming size in a short time and masses of pink flowers are borne through early summer. A good flowering tree for almost any soil condition.

GOLDEN RAIN TREE
1 to 2 ft. . . . 1.29 ea. 10 for 12.50
3 to 4 ft. . . . 2.98 ea. 10 for 29.00
This medium sized tree does not usually grow over 30 feet tall. Does well in a variety of soils, but seems better suited to open sunshine than to shade. Midsummer brings showy 12 to 18 inch clusters of lemon-yellow flowers.

CHINESE REDBUD
2 to 3 ft. . . . 1.98 ea. 10 for 19.00
Similar to the native Redbud, but has larger, rounder leaves and a more compact habit of growth. Often forms a lovely upright shrub, rather than a tree. Flowers when younger than does the American Redbud, and the blooms are larger and deeper pink.

FLOWERING TREES 1 or 2 Years Old

MAGNOLIA GRANDIFLORA

½ to 1 ft. . . . 1.49 ea. 10 for 14.50

Magnificent specimen tree with big glossy leaves and fragrant white flowers. Grows to about 40 feet.

DOUBLE PINK FLOWERING CHERRY

½ to 1 ft. . . . 98c ea. 10 for 9.50

3 to 5 ft. . . . 5.95 ea. 10 for 58.50

The upright form of the famous Japanese Cherries. An outstanding specimen for the lawn. Very large, double pink blooms in early spring. Ultimate height 30 feet.

EUROPEAN MOUNTAIN ASH

3 to 4 ft. . . . 3.98 ea. 10 for

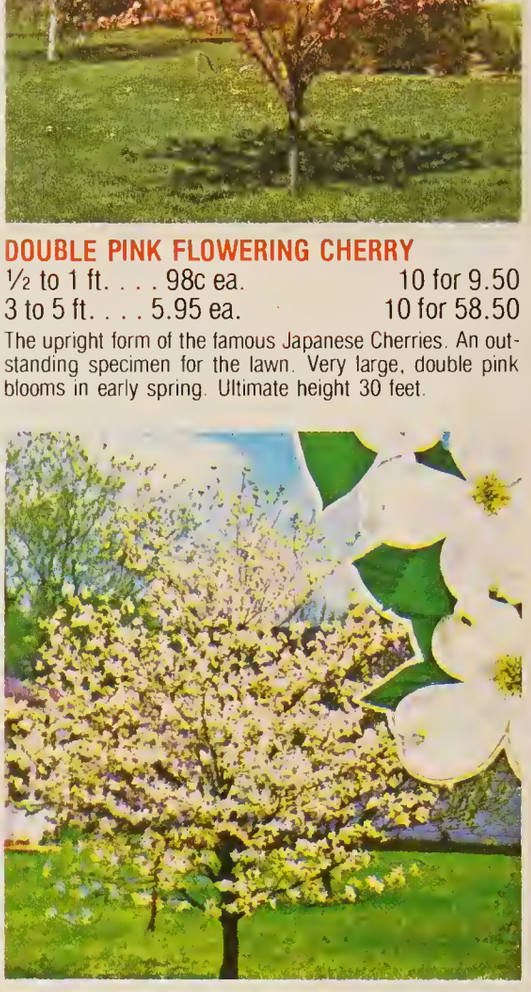
Very hardy, dense head, and regular, beautiful green foliage, covered from July till winter with l bright red berries. The combination of foliage and c fruits make this most strinking and beautiful. height 30 feet.

AMERICAN REDBUD

2 to 3 ft. . . . 79c ea. 10 for 7.50

4 to 6 ft. . . . 1.98 ea. 10 for 19.00

The Redbud is often used as a specimen or to provide a high point in a shrub border. Branches are covered with small, pea-like, purplish pink blossoms before the foliage comes out in spring. Ultimate height 15 feet.



WHITE FLOWERING DOGWOOD

2 to 3 ft. . . . 79c ea. 10 for 7.50

4 to 5 ft. . . . 2.49 ea. 10 for 24.00

Well known to everyone, beautiful all the year. Large, white, single blossoms are conspicuous early in spring. The foliage is attractive all summer, and the fall colors beautiful. Red berries hang on most of the winter. Use as a specimen, or in groups as a background for borders. Grows up to 30 feet high.

SOURWOOD—Collected

2 to 3 ft. . . . 1.98 ea. 10 for

Highly rated on practically all planting lists and appr some of the most prominent authorities because o season beauty. The clusters of white flowers are uous in the early days of spring, but the real beau rich crimson foliage in early fall. May be grown a compact specimen or pruned as any small tree. Ve established in acid or neutral soils. Requires treatn alkiline soils.

HEDGE PLANTS

50 SOUTH PRIVET

1 to 2 ft. . . . 6.98

True evergreen type with small dense foliage. All stock offered is well cultivated in field rows and not to be confused with collected materials taken from under abandoned hedges. Uniform quality in all grades.

25 CALIFORNIA PRIVET

1 to 2 ft. . . . 6.98

A very attractive hedge plant, with large glossy leaves, holds its leaves well into winter. Not hardy in far Northern states.

25 NORTH PRIVET

1 to 2 ft. . . . 6.98

The variety most widely used by our customers in northern states and Canada. Nice young stock to give you the appearance so necessary for quick retail sales; rich, attractive foliage. Trim any desired height for a dense, formal hedge clear to the ground or leave untrimmed as a tall screen. Hardy, inexpensive and fast growing in the sun or shade. Plant 1 feet apart.

25 MULTIFLORA ROSE

1 to 2 ft. . . . 7.98

Protect and beautify your property. An inexpensive fence that grows so dense no person or animal through. The plant grows 6 to 8 feet tall and 5 t wide, and are tough and fast growing. Covered multitude of white flowers in spring, and loaded wit tive red fruit in fall and winter which provides food life.

SHADE TREES 1 or 2 Years Old

K, RED OAK or SCARLET OAK
. . . 1.79 ea. 10 for 17.50
. . . 2.98 ea. 10 for 29.50

ak is a handsome tree, especially when young, l for avenues. Grows rapidly and prefers some- t soil. Foliage bright red in fall. Fiberous-rooted olants well. The Red Oak is a beautiful tree of vth, growing into a large majestic tree with broad round head Foliage turns dark red in fall. t Oak has gradually spreading branches forming ped rather open head. Grows well in dry situa- most brilliant scarlet fall coloring of all oaks.

Y MAPLE
. . . 98c ea. 10 for 9.50

e rich green and hold longer in the fall than most thout much color change in color. Ideal wherever eauty and shade. Reaches the height of 30-50 ft.

MAPLE
. . . 1.29 ea. 10 for 12.50
. . . 1.98 ea. 10 for 19.50

growing, soft wooded tree reaching a height of t Leaves deeply cut and very attractive, being a e underneath.

FISH BAIT TREE
. . . 98c ea. 10 for 9.50

stock for catalpa bungei. Used for fence post ing very popular for production of worms for fish

MULBERRY
. . . 1.29 ea. 10 for 12.50

SCARLET MAPLE—Collected.
3 to 4 ft. . . . 1.29 ea. 10 for 12.50
4 to 6 ft. . . . 2.49 ea. 10 for 24.50

A large growing Maple tree that is known for its beautiful flowers, appearing before leaves and for its attractive red in autumn. Does well in moist or damp places.

JAPANESE RED LEAF MAPLE
1 ft. . . . 2.98 ea. 10 for 29.00

A lovely red leafed tree for accents, not large, can be grown as a bush if desired.

SYCAMORE
3 to 4 ft. . . . 1.29 ea. 10 for 12.50
4 to 6 ft. . . . 1.98 ea. 10 for 19.00

A tree of song and poetry. Beloved for its large leaves and erect growth and the patchy white bark as tree ages. A beautiful native tree.

CHINESE ELM
3 to 4 ft. . . . 1.29 ea. 10 for 12.50
4 to 6 ft. . . . 1.98 ea. 10 for 19.00

Quite a new variety; very rapid grower. Adapts itself to unfavorable soils and conditions. Grows well in extremely dry locations. Ultimate height 30 to 50 feet.

CRIMSON KING MAPLE
3 to 5 ft. . . . 9.98 ea. 10 for 95.00

The leaves burst bright red in the spring and slowly darken to a deep, rich, maroon-red as summer progresses. The Crimson King adds an engaging accent in a cluster of other green tree foliage.

DAWNS REDWOOD
1 to 2 ft. . . . 3.49 ea. 10 for 34.00

A hardy pyramid like an evergreen with fernlike foliage and cones, but it is deciduous. Enjoys wet places. One of the oldest trees known to man we know you will enjoy Height about 35 ft.

PERSIMMON
1 to 2 ft. . . . 1.29 ea. 10 for 12.50

The Common American persimmon is a fine fruit that in its best forms is well worth growing as a home garden fruit as far north as the southern shores of the great lakes Grows up to 50 ft. tall Fruit yellow or orange in color with redish cheek

FAASEN RED LEAF MAPLE
3 to 5 ft. . . . 9.98 ea. 10 for 95.00

A red leaf maple, that retains its color throughout the summer months Similar to the Crimson King Maple but not patented

THORNLESS HONEY LOCUST
3 to 5 ft. . . . 1.98 ea. 10 for 19.50

A hardy tree known for its resistance to disease and pests and its bright golden bronze foliage. Known best of all for its "fast growth rate", up to 40 feet at maturity.

SUNBURST LOCUST—(Pat. No. 1313)
3 to 5 ft. . . . 10.95 ea. 10 for 100.00

A hardy, disease resistant Locust, with bright golden bronze foliage on 8 to 10 inches of branch tips and free of thorns. Tree is well formed, symmetrical and broadly pyramidal with excellent spreading branching habit. Ultimate height 40 feet.

BLACK GUM—Collected
2 to 3 ft. . . . 1.29 ea. 10 for 12.50

The Black gum is beautiful, and often is planted as a shade tree. The wood is yellow or light brown with a hard twisted grain which makes it difficult to split. Ultimate height 60 to 80 feet.

SASSAFRAS—Collected
2 to 3 ft. . . . 1.29 ea. 10 for 12.50

Ornamental tree grown for its handsome foliage assuming beautiful tints of red and gold in fall. Dark blue fruit on red fleshy stalks Prefers a sunny location

GREEN WEEPING WILLOW
2 to 3 ft. . . . 98c ea. 10 for 9.50
4 to 6 ft. . . . 1.98 ea. 10 for 19.50

This common Weeping Willow makes a large lacy tree with long branches weeping to the ground Good for planting near water or as a planting accent alone or in groups of two or three in moist locations. Ultimate height 40 feet

SHADE TREES 1 or 2 Years Old

WHITE BIRCH

3 to 4 ft. . . . 1.49 ea. 10 for 14.50
4 to 6 ft. . . . 2.98 ea. 10 for 29.00

Many people know this eye-catching native tree as White Birch or Canoe Birch. The white bark and clear yellow leaves in fall provide showy colors. Height 60 feet, spread 30 feet.

GINKO TREE

1 to 2 ft. . . . 1.49 ea. 10 for 14.50
3 to 5 ft. . . . 3.98 ea. 10 for 38.50

Very effective for lawns, foliage fernlike, yellow-green marked with delicate hairlike lines. The fruit, which matures in the fall, has a sweetish, resinous taste. 50 feet at maturity.

TULIP-TREE—Collected

3 to 4 ft. . . . 1.29 ea. 10 fo
4 to 6 ft. . . . 1.98 ea. 10 fo

One of the loveliest of our native trees. Tall gr shapely habit, and its large irregular leaves make quick shade. Bears numerous tulip-like flowers Blooms are yellow, marked inside of base with o

SUGAR MAPLE

3 to 4 ft. . . . 1.29 ea. 10 for 12.50
4 to 6 ft. . . . 1.98 ea. 10 for 19.00

The largest of all maples, and its beautiful array of yellow and orange hues make it a sight to remember due to the foliage thickness. A very hardy northern and southern tree and will grow up to 60 feet.

SWEET GUM

2 to 3 ft. . . . 1.29 ea. 10 for 12.50
4 to 6 ft. . . . 1.98 ea. 10 for 19.00

Star shaped leaves turn scarlet in autumn. This tall handsome tree is broadly pyramidal in form bearing pricky brown ball-type fruits remaining on branches after the leaves fall. Gives deep shade.

LOMBARDY POPLAR

1 to 2 ft. . . . 39c ea. 10 f
2 to 3 ft. . . . 49c ea. 10 f
3 to 4 ft. . . . 79c ea. 10 f
4 to 6 ft. . . . 98c ea. 10 f

Suitable as a background, along driveways, scre outbuildings and other unsightly objects.

NATIVE WILDFLOWERS

6 LADY'S SLIPPERS 2.98
10 BLOOD ROOT WHITE FLOWERS 2.98
6 DUTCHMAN BREECHES 2.98
4 JACK-IN-THE-PULPIT 2.98
6 PARTRIDGE BERRY 2.98
4 PASSION FLOWER 2.98

10 TRILLIUM'S MIXED COLORS 2.98
10 BLUE BELLS 2.98
10 MAY APPLE, White 2.98
6 TRAILING ARBUTUS, Pink 2.98
6 SOLOMON SEAL, White 2.98
10 HEPATICO, Mixed Colors 2.98
10 CHRISTMAS FERN 2.98

10 HAYSCENTED FERN 2
10 CINNAMON FERN 2
10 HARDY GARDEN VIOLET 2
4 ROYAL FERN 2
10 WHITE VIOLETS 2
10 BIRDFOOT VIOLET 2

FRUIT TREES 1 or 2 Years Old

OF GEORGIA PEACH
. . . 1.29 ea. 10 for 12.50
t. . . . 1.98 ea. 10 for 19.50
ft. . . . 2.98 ea. 10 for 29.50

ous, hardy and productive. Leading white variety ercial use. Fruit large, with bright attractive red vering the white background. Flesh white, highly nd very firm. Freestone.

A PEACH
. . . 1.29 ea. 10 for 12.50
. . . 1.98 ea. 10 for 19.50
ft. . . . 2.98 ea. 10 for 29.50

ost popular peach on the market, and universally ellow freestone of excellent quality; juicy, firm. Tree is hardy, productive and diseas resistant.

LE PEACH
. . . 1.29 ea. 10 for 12.50
. . . 1.98 ea. 10 for 19.50
ft. . . . 2.98 ea. 10 for 29.50

or home and commercial planting. Large, yellow Freestone.

ED PEACH
. . . 1.29 ea. 10 for 12.50
. . . 1.98 ea. 10 for 19.50
ft. . . . 2.98 ea. 10 for 29.50

each is a yellow freshed peach which ripens six er than the Elberta Peach.

JUBILEE PEACH
. . . 1.29 ea. 10 for 12.50
. . . 1.98 ea. 10 for 19.50
ft. . . . 2.98 ea. 10 for 29.50

ular early yellow flesh peach, excellent for home ntings and local sales. Good size fruit of fine very important feature is its excellent winter har- ch insures a fine crop each year.

ON PEACH
. . . 1.29 ea. 10 for 12.50
. . . 1.98 ea. 10 for 19.50
ft. . . . 2.98 ea. 10 for 29.50

ed, large blushed, freestone peach with a real ous white flesh, extremely hardy and produc-

VEN PEACH
. . . 1.29 ea. 10 for 12.50
. . . 1.98 ea. 10 for 19.50
ft. . . . 2.98 ea. 10 for 29.50

st planted, most popular and most dependable hi-quality, hardy yellow freestone. Rapidly over- ta.

GOLDEN APPLE
. . . 2.29 ea. 10 for 20.00
t. . . . 3.29 ea. 10 for 30.00

hardy, grows upright and is quite disease resis- m to large, bright yellow, flesh fine grained, a very pleasing spicy flavor. Highly recom- l widely planted to pollinate self sterile varieties.

DELICIOUS APPLE
. . . 2.29 ea. 10 for 20.00
t. . . . 3.29 ea. 10 for 30.00

ul, golden apple that ripens late. Trees are very d bear quite young. Good for home and fresh s.

N WINESAP APPLE
. . . 2.29 ea. 10 for 20.00
t. . . . 3.29 ea. 10 for 30.00

pular long keeping winter apple. An improved ith better color, large size and better keeping

RED ROME BEAUTY APPLE
2 to 3 ft. . . . 2.29 ea. 10 for 20.00
3½ to 5 ft. . . . 3.29 ea. 10 for 30.00

Large uniform size. Crisp, juicy, aromatic, with white flesh One of the longest keepers of all apples.

RED DELICIOUS APPLE
2 to 3 ft. . . . 2.29 ea. 10 for 20.00
3½ to 5 ft. . . . 3.29 ea. 10 for 30.00

One of America's favorite apples. Ripens in fall. Dark red color, firm fresh.

LODI APPLE
2 to 3 ft. . . . 2.29 ea. 10 for 20.00
3½ to 5 ft. . . . 3.29 ea. 10 for 30.00

The favorite early yellow Apple. The same fine flavor as the Early Harvest, but much larger and firmer. Unsurpassed for cooking.

EARLY HARVEST APPLE
2 to 3 ft. . . . 2.29 ea. 10 for 20.00
3½ to 5 ft. . . . 3.29 ea. 10 for 30.00

Our best selling, early, high yielding golden variety. Will grow fast and bear young. A cooking apple known to housewives everywhere.

RED JONATHAN APPLE
2 to 3 ft. . . . 2.29 ea. 10 for 20.00
3½ to 5 ft. . . . 3.29 ea. 10 for 30.00

A deep red Apple of highest quality with a delicious crisp, tender flesh. Fine for cooking and freezing

5-in-1 APPLE—5 Varieties on Each Tree
3 to 4 ft. . . . 7.98 ea. 10 for 75.00

Five different varieties budded on one tree— nice long limbs of each variety that includes the following: Yellow Delicious, Red Delicious, Stayman Winesap, Early Harvest, and Rome Beauty. Nice well branched tree.

MONTMORENCY CHERRY
2 to 3 ft. . . . 3.98 ea. 10 for 39.50
4 to 5 ft. . . . 6.98 ea. 10 for 69.50

Universally recognized the best sour Cherry for eating fresh, canning, baking and preserving. Bears large fruit very young. America's favorite hi-yielding cherry

BLACK TARTARIAN
2 to 3 ft. . . . 3.98 ea. 10 for 39.50
4 to 5 ft. . . . 6.98 ea. 10 for 69.50

The big, almost black sweet Cherry everyone likes. Fine for eating, canning and freezing. Luscious Cherries ripen in June

APRICOTS—Moorpark or Early Golden
1 to 3 ft. . . . 1.29 ea. 10 for 12.50
2 to 3 ft. . . . 1.98 ea. 10 for 19.50
3½ to 5 ft. . . . 3.29 ea. 10 for 30.00

The Moorpark Apricot is a large, yellow variety that is most widely planted. It bears in July and is of a Supreme Quality. The Early Golden Apricot is large and yellow, which is better suited for the Southwest. It bears in early July and is Freestone.

ORIENT PEAR
2 to 3 ft. . . . 2.98 ea. 10 for 29.50
3 to 5 ft. . . . 3.98 ea. 10 for 39.50

One of the very few varieties, almost entirely immune to blight. Its fruit is excellent fresh or canned, melting juicy, mild subacid flavor. Fruit round yellowish with red blush. Interplant with Keiffer for pollination purposes. Late August

KEIFFER PEAR
2 to 3 ft. . . . 2.98 ea. 10 for 29.50
3 to 5 ft. . . . 3.98 ea. 10 for 39.50

Ripens late September. One of the best known varieties and grows to a large size. Fruit long and heavy, flesh coarse and not so sweet. Largely planted for canning and is excellent for preserving

BARLETT PEAR
2 to 3 ft. . . . 2.98 ea. 10 for 29.50
3 to 5 ft. . . . 3.98 ea. 10 for 39.50

Grown profitably in every pear growing section in America. Trees vigorous and bear young. Large smooth yellow fruit with sweet white flesh. Flesh fine grained and juicy

RED JUNE PLUM
2 to 3 ft. . . . 1.98 ea. 10 for 19.50
3½ to 5 ft. . . . 3.29 ea. 10 for 30.00

This large plum matures very early. The tree bears heavily. To avoid "June drop" the droping of excess fruit, thin the fruits.

METHLEY PLUM
2 to 3 ft. . . . 1.98 ea. 10 for 19.50
3½ to 5 ft. . . . 3.29 ea. 10 for 30.00

One of the better varieties. Fruit is large in size, reddish purple in color with red flesh. Tree is vigorous grower and does well on most types of soil. Heavy annual bearer. Good shipper.

BURBANK PLUM
1 to 2 ft. . . . 1.29 ea. 10 for 12.50
2 to 3 ft. . . . 1.98 ea. 10 for 19.50
3½ to 5 ft. . . . 3.29 ea. 10 for 30.00

Large, purplish-red plum with yellow delicious flesh. A very prolific variety. Excellent eating and commercial plum. Good shipper. Ripens late June

DAMSON PLUM
1 to 2 ft. . . . 1.49 ea. 10 for 14.50
2 to 3 ft. . . . 2.49 ea. 10 for 24.50
3½ to 5 ft. . . . 3.98 ea. 10 for 39.00

Very dark blue, and bears in August

NECTARINE
1 to 2 ft. . . . 1.29 ea. 10 for 12.50
2 to 3 ft. . . . 1.98 ea. 10 for 19.50
3½ to 5 ft. . . . 3.29 ea. 10 for 30.00

It resembles and grows like Peaches with the same luscious, sweet, juicy, mellow, golden fresh. The thin, smooth, plum like skin is absolutely fuzzless

DWARF FRUIT TREES 2 or 3 Years Old

DWARF APPLE TREE

CRISP APPLE

SWEET PEACHES

PLUMS

No longer just a special feature of exclusive gardens, dwarf fruit trees are now available to all, and at reasonable prices. These wonderful space saving trees are produced by budding or grafting regular varieties on special dwarfing rootstocks. Even though the tree remains much smaller, the fruit is of full size and quality. One outstanding feature of dwarf trees is that they begin to bear fruit when only 2 or 3 years old. Just the thing for home gardens where space is so valuable. These trees usually reach 6 to 8 feet at maturity.

DWARF ELBERTA PEACH
2 to 3 ft. . . . 3.29 ea. 10 for 32.00
3½ to 5 ft. . . . 4.98 ea. 10 for 47.50

DWARF RED HAVEN PEACH
2 to 3 ft. . . . 3.29 ea. 10 for 32.00
3½ to 5 ft. . . . 4.98 ea. 10 for 47.50

DWARF BELLE OF GEORGIA PEACH
2 to 3 ft. . . . 3.29 ea. 10 for 32.00
3½ to 5 ft. . . . 4.98 ea. 10 for 47.50

DWARF GOLDEN JUBILEE PEACH
2 to 3 ft. . . . 3.29 ea. 10 for 32.00
3½ to 5 ft. . . . 4.98 ea. 10 for 47.50

DWARF RED DELICIOUS APPLE
2 to 3 ft. . . . 3.29 ea. 10 for 32.00
3½ to 5 ft. . . . 4.98 ea. 10 for 47.50

DWARF YELLOW DELICIOUS APPLE
2 to 3 ft. . . . 3.29 ea. 10 for 32.00
3½ to 5 ft. . . . 4.98 ea. 10 for 47.50

DWARF WINESAP APPLE
2 to 3 ft. . . . 3.29 ea. 10 for 32.00
3½ to 5 ft. . . . 4.98 ea. 10 for 47.50

DWARF EARLY McINTOSH APPLE
2 to 3 ft. . . . 3.29 ea. 10 for 32.00
3½ to 5 ft. . . . 4.98 ea. 10 for 47.50

DWARF RED JONATHAN APPLE
2 to 3 ft. . . . 3.29 ea. 10 fc
3½ to 5 ft. . . . 4.98 ea. 10 fc

DWARF YELLOW TRANSPARENT APP
2 to 3 ft. . . . 3.29 ea. 10 fc
3½ to 5 ft. . . . 4.98 ea. 10 fc

DWARF MONTMORENCY CHERRY
2 to 3 ft. . . . 4.98 ea. 10 fc

DWARF NORTH STAR CHERRY
2 to 3 ft. . . . 4.98 ea. 10 fc

DWARF BARTLETT PEAR
2 to 3 ft. . . . 4.98 ea. 10 fc

DWARF KIEFFER PEAR
2 to 3 ft. . . . 4.98 ea. 10 fc

DWARF BURBANK PLUM
2 to 3 ft. . . . 3.98 ea. 10 fc

EVERGREENS 1 or 2 Years Old

N'S ARBORVITAE
. . . 99c ea. 10 for 9.50
ared to any desired shape or height. Mainly
n groups.

WHITE PINE
1 to 2 ft. . . . 79c ea. 10 for 7.50
Has soft blue-green needles in a cluster. Ideal for screen or windbreak

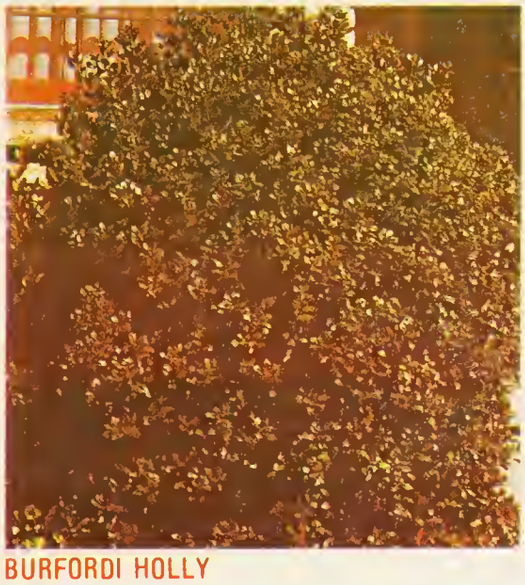
MOUNTAIN LAUREL—Collected
½ to 1 ft. . . . 69c ea. 10 for 6.50
A very handsome spreading broadleaf. Leaves are dark, glossy green. A very useful landscape plant

BORVITAE
99c ea. 10 for 9.50
n form to a perfect globe of any evergreen and
y pretty and useful. Dark green, dense, and
e winter color.

COLORADO BLUE SPRUCE
½ to 1 ft. . . . 79c ea. 10 for 7.50
Rated the most popular and valuable evergreen. Impressive color and perfect pyramidal shape adds beauty and value to any property.

BAKER ARBORVITAE
½ to 1 ft. . . . 99c ea. 10 for 9.50
A striking, attractive evergreen that retains its shape without shearing. Compact, pyramidal form and dark green foliage

. . 99c ea. 10 for 9.50
lant to line driveways or borders. Its' small
ves create dense foliage.



BURFORDI HOLLY
½ to 1 ft. . . . 99c ea. 10 for 9.50
It carries the beautiful foliage the year 'round, with a plenti ful supply of big bright red berries in winter

NORWAY SPRUCE
½ to 1 ft. . . . 79c ea. 10 for 7.50
One of the best known and one of the hardiest of all spruce. Conical in habit with dark green foliage. Does well in rather sterile soil and withstands the blast in cold exposed locations.

EVERGREENS 1 or 2 Years Old

RHODODENDRON—Collected
½ to 1 ft. . . . 1.29 ea. 10 for 12.50
Rhododendrons are busy evergreen shrubs with glossy leather-like foliage. Grows best in partial shade. Use plenty of peat moss when planting Rhododendrons.

CANADIAN HEMLOCK—Collected
½ to 1 ft. . . . 69c ea. 10 for 6.50
Young or old, the Hemlock is always a picture of gracefulness. Foliage dark green, lacy, close-set, drooping gracefully. The best large evergreen in heavy shade. Makes a beautiful hedge.

ANDORRA JUNIPER
½ to 1 ft. . . . 99c ea. 10 f
Grayish green foliage in summer, turning to a orchid color in the late fall, which prevails throu winter. Is dwarfish in growth, clinging snug ground. Ultimate height 2 feet.

PFITZER JUNIPER—Low Spreading
½ to 1 ft. . . . 99c ea. 10 for 9.50
Informal spreading evergreen plant with beautiful plume-like branches. Will stand considerable shade. Useful in foundation planting or rock garden work. Ultimate height 2½ feet.

HETZI JUNIPER
½ to 1 ft. . . . 69c ea. 10 for 6.50
A fast growing broad upright-spreading shrub generally used as a trimmed plant in a foundation planting or a large dense hedge. A blue green evergreen with scale-like needles.

NANDINA
4 to 6 in. . . . 99c ea. 10 for 9.50
A very showy plant with its small, dainty, light green summer foliage, turning to a bronzy-red in winter. The gorgeous leaf coloring makes a beautiful background for large clusters of bright red berries that are retained throughout the winter.

RED CEDAR—Collected
1 ft. . . . 69c ea. 10 for 6.50
True cedars are famous for their sweet, fresh odor, and their tough, reddish wood which is used to make cabinets.

BLUE RUG
4 to 6 in. . . . 1.29 ea. 10 for 12.50
Low trailing juniper with intense silver blue foliage. May reach 6 inches in height. Useful in rock gardens, planters and bank planting.

CHERRY LAUREL
½ to 1 ft. . . . 79c ea. 10 for 7.50
A handsome evergreen that can be grown into a tree 40 feet high or pruned as a specimen. Has dark, shiny green leaves and will become more compact each time you shear it.

HETZI HOLLY
½ to 1 ft. . . . 99c ea. 10 for 9.50
Densely branched on an erect, somewhat spreading habit with lustrous large dark green convex, oval leaves.

FOSTER HOLLY
½ to 1 ft. . . . 1.29 ea. 10 for 12.50
Prolific berry producer. Narrow, dark green leaves. Very hardy. Rapid grower.

HELLERI HOLLY
½ to 1 ft. . . . 1.29 ea. 10 for 12.50
Dwarf prostrate mounding growth habit. Excellent for borders. Handsome small dark green leaves and compact branching.

JAPANESE YEW—Taxus, Spreading
½ to 1 ft. . . . 1.29 ea. 10 for 12.50
Dark green foliage at all seasons of the year. Grows broader than tall.

WHITE SPRUCE
½ to 1 ft. . . . 79c ea. 10 for 7.50
Has short blue-green needles completely around the twig. Resembles colorado spruce. A favorite for ornamentals, Christmas trees and windbreaks.

JAPANESE HOLLY
½ to 1 ft. . . . 99c ea. 10 f
A superior compact, dwarf holly. One of the har most popular of the Crenata species. Dense growth; excellent for shady areas. Small, glos green foliage. Excellent foundation plantings, plan and for evergreen hedges.

MUGHO PINE
4 to 6 in. . . . 69c ea. 10 f
An ornamental that grows into a low, round ball at tall. Dark green needles are about 2 inches long a in pairs. Slow growing, thrives even in poor soil

SARGENT JUNIPER
½ to 1 ft. . . . 1.29 ea. 10 fo
Beautiful rich grey-green foliage holds its color Semi-erect spreading form makes it unlimited in use.

GARDENIA—White Blossoms
½ to 1 ft. . . . 99c ea. 10
The Gardenia is a fragrant, waxy, white or lemo flower. The tree or shrub on which it grows is a the tropics.

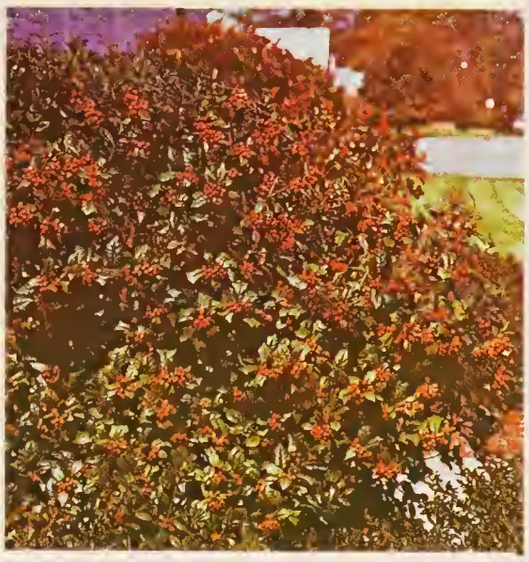
CAMELIA SASANQUA
½ to 1 ft. . . . 99c ea. 10
The Camelia is a beautiful waxy flower. The b borne on an evergreen tree or shrub, which related to the tea plant.

EVERGREENS 1 or 2 Years Old

YELLOW BERRY PYRACANTHA
. . . . 1.29 ea. 10 for 12.50
ergreen foliage with clusters of yellow berries in

ABELIA
. . . 99c ea. 10 for 9.50
medium growing semi-evergreen shrub for lanting, filling corners, curves, or can be used The small, glossy leaves remain on most of the ll, dainty, blush-white blossoms are borne on g branches from May until frost.

F LIGUSTRUM
. . . 49c ea. 10 for 4.50
f Ligustrum is the spreading grower with thick s. Ultimate height 6 feet. The Japanese Ligus- all, fast growing variety with dark green large, Grows swiftly into a large dense shrub. Small s are followed by clusters of blue berries. et.



DWARF BURFORDI HOLLY
½ to 1 ft. . . . 99c ea. 10 for 9.50
Very slow growing, compact, miniature form. Spring bloom is followed by red berries.

AMERICAN HOLLY—Collected
½ to 1 ft. . . . 69c ea. 10 for 6.50
Adapted to wide range of soil and climate. Will grow into trees 25 feet or more in height but often kept sheared to small specimens. White flowers in early spring. Red berries on the berry-bearing plants serve as decoration throughout winter. A wonderful specimen plant. Female plant produces bright red berries if planted near a male Holly.

CHINESE HOLLY
½ to 1 ft. . . . 1.29 ea. 10 for 12.50
Ideal hedge for shade and sunny planting A very superior compact low growing mounding form with dense branching habit.

AUSTRIAN PINE
½ to 1 ft. . . . 79c ea. 10 for 7.50
Very beautiful, dark green, long-needled pine. Relatively slow-growing. Compact.

SCOTCH PINE
4 to 6 in. . . . 69c ea. 10 for 6.50
A favorite with Christmas tree and ornamental growers. Has short blue-green needles, medium growing specie.

EUONYMUS RADICANS
½ to 1 ft. . . . 49c ea. 10 for 4.50
Grows upright naturally Makes good shrub and thick hedges, can be staked and sheared into columns. Dark green leaves and stems the year round

EUONYMUS MANHATTAN
½ to 1 ft. . . . 49c ea. 10 for 4.50
A handsome foundation plant or hedge. Upright growing medium size evergreen shrub with very glossy dark green serrated leaves.

NUT TREES 1 or 2 Years Old

NT
. 1.79 ea. 10 for 17.50
. 3.98 ea. 10 for 39.00
dwarf growing Easy to crack, large sweet ut whole. Fine for shrub borders or hedges.

HARDY PECAN SEEDLINGS—
1 to 2 ft. . . . 1.79 ea. 10 for 17.50
3 to 4 ft. . . . 3.98 ea. 10 for 38.50
4 to 5 ft. . . . 5.98 ea. 10 for 58.50
Beautiful, rapid growing, sturdy trees produced from seed of thin shelled, hardy varieties. Kernels are delicious but usually smaller than grafted pecans.

CHINESE CHESTNUT
1 to 2 ft. . . . .98 ea. 10 for 9.50
3 to 5 ft. . . . 2.49 ea. 10 for 24.00
New improved blight resistant. Chestnut grown successfully where native trees have died Hardy, prolific bearing (plant 2 or more, pollination insures a big crop). Big sweet nuts compare to the good native varieties for size and quality. Beautiful year round, medium size trees bear young.

STUART PECANS—Paper Shell
2 to 3 ft. . . . 7.95 ea.
Stuart is one of the excellent southern-type pecans that will consistently yield big crops of very high quality nuts. The trees are fast growing and are excellent for shade even in northern states, and will also produce nuts as well. These are vigorous grafted trees that are sure to give good results.

BLACK WALNUT
1 to 2 ft. . . . .79 ea. 10 for 7.50
3 to 5 ft. . . . 2.49 ea. 10 for 24.00
Tall, towering, sturdy, handsome trees. Valuable for timber, shade and tasty nuts.

AMERICAN BEECH—Collected
3 to 4 ft. . . . 98c ea. 10 for 9.50
The American Beech averages 50 to 75 feet in height. The triangular nut is covered with a bur. The brown beechnuts are good to eat.

SHELL BARK HICKORY
1 to 2 ft. . . . 1.98 ea. 10 for 19.00
One of the best nut trees, especially for northern states. Large white, 4-angled nuts, sweet kernel.

ENGLISH WALNUT
2 to 3 ft. . . . 6.95 ea. 10 for 68.50
Attractive, broad-headed trees, excellent for shade. Grow fast, bear young. Large, thin-shelled, and easy to crack nuts.

BUTTER NUT
1 to 2 ft. . . . 1.98 ea. 10 for 19.00
3 to 4 ft. . . . 3.98 ea. 10 for 38.50
Big pecan-shaped nuts with rich, buttery flavor and tender white meat. Hardy, fast growing, high-yielding, superb shade tree.

JAPANESE WALNUT
3 to 4 ft. . . . 2.98 ea. 10 for 29.00
Specimen shade tree that grows 30 to 40 feet tall and bears nuts similar to the black walnut

BERRY PLANTS, ETC., 1 or 2 Years Old

BLACKBERRY
½ to 1 ft. . . . 69c ea. 10 for 6.50

Mouth-watering giant berries, over an half inch long, ripen over a long period on dependable, sub zero hardy bushes.

BLACK RASPBERRY
½ to 1 ft. . . . 69c ea. 10 for 6.50

The Black Raspberry is an excellent early raspberry that produces big crops of delicious, high quality berries. Very hardy and vigorous. It is the best commercial variety in Ohio and other states.

RED EVERBEARING RASPBERRY
½ to 1 ft. . . . 69c ea. 10—6.50; 20—12.50

The Red Everbearing Raspberry is an everbearing type that produces a large crop in June and yet another fine crop in September. The fall crop is considerably earlier than that of other everbearing raspberries so it is especially desirable. The berries are unusually large and have a delicious flavor. You will surely want some of this wonderful variety in your garden.

FIGS
1 to 2 ft. . . . 2.49 ea. 10 for 24.00

Handsome, bushy plants will bear figs this summer on new growth. Give winter protection or pot for indoor plant in the North.

DEWBERRY
½ to 1 ft. . . . 69c ea. 10 for 6.50

Most desirable and profitable early berry. Larger than blackberries, first to ripen. Big, glossy, black fruit brings high market prices.

BOSEN BERRY
½ to 1 ft. . . . 89c ea. 10 for 8.50

Largest thornless berry ever developed. Extra fancy beautiful superb quality fruits often 1½ inches long. Excellent for eating, canning, freezing juices, etc.

GOOSEBERRY
2 yr.-1 ft. . . . 1.49 ea. 10 fo

The berries hang on slinder stems below branche pick. Fruit deep pink when fully ripe.

25 STRAWBERRY
Blakemore or Tennessee Beauty . . . .

For many years the excellent processing qualities more have made it one of the most important of berry varieties. Its berries are very firm and outstanding bright red color. Tennessee Beauty mended as a commercial variety in south ce eastern states, where its firmness is a definite a Plants are vigorous and make lots of runners. T are of medium size and have a bright, deep red

25 GEM EVERBEARING STRAWBERRY

Gem is so much like Superfection that we consid the same variety. But call it what you want, it most dependable everbearer in the northeast.

GROUND COVERS 1 or 2 Years Old

CROWNVETCH . . . . . 10 for 2.98

Popular perennial ground cover that beautifies, problem slopes and banks. Needs no maintenance or mowing. Thrives in any climate, in sun or semishade. Winter hardy it provides effective erosion control, actually improves soil.

AJUGA BRONZE
1 yr. . . . . 5 for 2.50; 10 for 4.50

Vigorous, low growing and spreading plant that makes a dense ground cover. Produces small spikes of blue flowers in mid-April. Does best in shade with good drainage. Has bronze-purple foliage

SEDIUM, DRAGON'S BLOOD . . 10 for2.98

Sedium makes a good ground cover and they are often used in naturalized situations. They have the characteristic of setting on or affixing themselves to rocks and walls. Give sedium a well drained sandy soil that is well supplied with humus or rotted leaf mold.

EUONYMUS COLORATUS
½ to 1 ft. . . . 39c ea. 10 for 3.50

Rapid growing, low, creeping plants withstand sun or shade. Lustrous evergreen foliage turns purple in winter. Fine for covering banks.

VINCA MINOR—Clumps, Collected
10 for 2.50 . . . . . 100 for 24.00

An old fashioned popular vine for ground covering growing well in the shade; useful also for porch and window boxes. The flowers are light blue color. The green leaves stay on all winter, will grow under almost any condition.

HALLS HONEYSUCKLE
1 ft. . . . 49c ea. 10 for 4.50

A fragrant continuous blooming vine to cover fences and trellises. An excellent root system for holding steep banks and a general ground cover. Ultimate height 20 feet.

ENGLISH IVY
4 to 8 in. 9
10 . . . . . 3.50 100 . . . 3

The English Ivy is an Evergreen lent covering for stone, concret structure. Luxuriant dark green very glossy. It thrives in dense s ground cover.

TRUMPET CREEPER
½ to 1 ft. . . . 99c ea. 10

An old favorite that will stand n climatic conditions. Clings to any face. Long, trumpet-shaped, brilli red blossoms.

VINES
r 2 Years Old

RLET HONEYSUCKLE
8c ea. 10 for 9.50
ooms of large size and beautiful blue-gray-. The most brilliantly colored of all the honey-dy anywhere and blooms from spring till frost.

—Purple
. . . 1.29 ea. 10 for 12.50
woody vine which grows to immense propor-not controlled Long clusters of lilac colored noted both for beauty and fragrance.

VEET
9c ea. 10 for 7.50
ith red berries and orange husks that can be g in the home. A favorite winter decoration.

INES—Concord, Niagara, Luttie, Delaware, Catawba
. . . 99c ea. 10 for 9.50
Grape is one of the most popular and reliable grown. Bunch is large and round and well Berries are large and round, almost black in nd delicious with a very sweet, buttery flavor. Grape is an excellent White grape. Ripens eks before Concord and has excellent flavor.

VINE—Collected—White
. . . 79c ea. 10 for 7.50
plants is noted for its rapid, slender growth. e and profusion of blooms through the sum-best in rich soil, where they can have plenty decorative for trelises. They are covered with

ASMINE
. . 1.29 ea. 10 for 12.50
fragrance comes from the great mass of et shaped flowers that cover the evergreen ing, about Crab-Apple blooming time.

ES—Weymouth, Earliblue, Blue-ey, Bluecrop, Rancocas, Rubel,
8 ea. 10 for 29.50
August, every bush is loaded with huge, rs of sapphire blueberries. Need Acid Soil shallow

BULBS, PERENNIALS 1 or 2 Years Old

12 IRIS BLUE—Collected 2.98
Unexcelled for accent planting in masses because of their remarkable eye-catching colors and long lasting foliage.

4 PAMPAS GRASS—White Plums 2.98
One of the most graceful and showy of all ornamental tall growing grasses. Giant, silken plums 8-10 inches long adorn the plant in summer.

10 HIBISCUS—Mallow Marvel 2.98
Mixed colors. They grow from 5 to 8 feet with great many blooms. Die back in fall, shoot new sprouts up in spring Bloom in July

10 GAILLARDIA—Red 2.98
Blooms profusely from June until September. Makes perfect border plants and excellent cut flowers. Its cherry bright flowers always highlight the perennial garden.

10 SHASTA DAISY—Alaska 2.98
The large daisy like flowers are borne on stiff stems 20-30 inches in length. It makes excellent cut flowers in June and July.

10 TRITOMA—Mixed 2.98
Unusual torch-like flower is wonderful cut material for August and September.

10 LUPINES—Mixed Colors 2.98
Lupines are graceful plants with beautiful foliage and lovely pea shaped flowers borne on stately spikes. Lupins begin to flower in June on two or three foot spikes.

10 DAY LILIES—Orange Flowers 2.98
Bright orange flowers in June and foliage that remains all summer.

20 GLADIOLUS—Mixed Colors 2.98
A rainbow mixture will accent any garden with their spiked blooms and sword like foliage blooming through the early summer.

10 FALL ASTERS—Mixed Colors 2.98
They bloom at a time (after long summer droughts) when many garden flowers are looking their worst.

10 CANDYTUFT—(IBERIS) Semp. White 2.98
White clusters and evergreen foliage in late April and May.

10 BABYBREATH—White 2.98
An excellent cut flower, during the month of July, especially when combined with bouquets or decorations with other flowers which do not have much foliage.

4 DAHLIAS—Mixed Colors 2.98
Dahlias are easy to grow plants, repaying the least care with loads of rainbow colors Any sunny spot with well drained soil is perfect for these plants of diversified form and blazing beauty.

10 MUMS—Mixed Colors 2.98
One of the most popular, free flowering garden favorites. These dense, low round, moundlike plants, two feet tall and two to three feet wide, are so full of flowers from August until severe frost you can't see the foliage.

8 YUCCA CANDLE OF HEAVEN 2.98
Makes a spectacular display with towering spikes of bell-shaped creamy white flowers 3 feet tall in July and August Plant in sunny location.

2 PEONIES—Red, Pink or White 3.98
Once planted, peonies will develop into large 2 feet plants blossoming each year with hundreds of flowers. The gorgeous peony is one of the outstanding flowers for the garden.

6 CANNAS—Red, Pink or Yellow 2.98
Massive blooms with a minimum of care have created a huge market for Cannas in your area Immense firm, high quality flowers in great profusion retain their striking color all summer.

8 CREEPING PHLOX—Mixed Colors 2.98
Every spring-flowering type with pretty moss-like, evergreen foliage which, during the flowering season in April and May, is hidden under masses of pink or blue blooms Excellent for rockery and border, invaluable for carpeting the ground.

10 HOLLYHOCKS—Mixed Colors 2.98
Hollyhock is a tall, hardy plant that is grown for its large, colorful flowers. The flowers which grow all along the stem are round and wide open. They come in many lovely colors.

10 RHUBARB—1 yr. roots 2.98
Stalks are large, tender and juicy Grown from selected seeds, they quickly form large clumps for tasty sauces and pies

20 ASPARAGUS—1 yr. roots
2.25 100 for 9.00
It produces shoots of finest quality, and very uniform in size, shape and color. 50 to 100 roots supply an average family.

DELIVERY DATE

Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, N. Mexico, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia and West Virginia.

SPRING: Jan. 15-April 30
FALL: October 1-December 10

ALL OTHER STATES

SPRING: March 15-May 20
FALL: September 15-October 25

These are suggested dates by leading Nursery Associations. If these delivery dates are not acceptable to you please so instruct on the order form—Thank you very much for your co-operation. It is hard for us to give the exact date of delivery due to weather conditions in each state, however, every effort will be made to ship within the specified periods above.

DATE _____

TOWN OR CITY _____ STATE _____ ZIP CODE _____

PHONE _____

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NURSERIES

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McMinnville, Tenn. 37110

"Warning: Due to the natural character of trees and nursery stock, mail order shipments may contain trees and nursery stock which are dead or non-viable and will not survive. Loss of a portion of any order of trees and nursery stock when ordered through the mail is not uncommon. Consult the warranty offered by any mail order nurseryman to determine the degree of protection afforded against such loss.

GUARANTEE

TWO-WAY GUARANTEE: We ship live plants packed well to reach you in perfect condition. However, sometimes a package gets lost and stays in transit a long time. In this case, in the Fall and Winter when plants are dormant you can scrape on the bark and tell whether the plants are alive or not. If the bark is green it is alive. We believe we have the best guarantee any mail order nursery could possibly offer. Here is our two-way guarantee. First guarantee—when you receive your order, if there are any plants in bad condition, you notify us immediately and we will replace absolutely Free. Second guarantee—The reason we make this strong guarantee is because there is no reason any of the plants should die. However, if any fail to live within 12 months from the date of delivery, we will replace for one-half of the original purchase price, plus $1.00 for postage and handling. No return of dead plants necessary. We guarantee our plants to be true to name and color. Anything that proves to be wrong color or variety, we will replace free.

NOTICE

If in doubt about any of the plants listed in this price list, growing in your area, please check with your County agent for advice.

NURSERY STOCK SA

Inside are over 250 Varieties of Nursery S
at prices so low they are almost unbeliev

HOW TO GET GOVERNMENT LANDS DIGEST ABSOLUTELY FREE!

If you want to know where available overnment lands are . . . and how to get em, we invite you to send for the current sue of Government Lands Digest *FREE* - o cost, obligation or commitment.

What is Government Lands Digest? overnment Lands Digest is published onthly to keep you informed of the many w Government land opportunities that e available to you. During the course of a ar, we'll list Government land offerings almost every one of the 50 States . . . and t only Federal Government lands, but ate and Municipal as well! No other pub- ation today covers the entire Govern- nt land field so completely. We offer the ly service that monitors these sales and scribes them for you.

What Will You Find In Government nds Digest? Each issue of Government nds Digest will bring you the latest infor- ation on what Government lands are ailable and the minimum price for which ey can be bought. Government Lands gest services your needs by compiling, earching and publishing the details of ousands of properties throughout the S. which are sold by several Federal of- es as well as hundreds of State and unicipal authorities. These bargains are ickly passed on at prices that will amaze u.

Where Are These Properties? Govern- nt land sales are everywhere . . . large oded tracts, farms, lakefront lots, ountain sites, even business and city operties. They range from small residen- l lots to sprawling family retreats of eral hundred acres. Throughout the ning months Government lands sales will cur in nearly every State including Hawaii d Alaska. Whether it's a secluded wilder- s site from a Federal office or a lake- nt cottage lot that is being sold for non- yment of taxes - opportunities abound!

What Our Readers Say;;

"Best source available for the Real Estate buyer" American Business

"We have enjoyed GLD since its incep- tion" L.R., Ashley, Ohio

"One of the best sources of information on the availability of Government Lands" Solar Energy Digest

"Thank you for Lands Digest — It's the greatest" F.P., Gridley, CA.

"Very informative" J.W., Odessa, Texas

"Worth many times the subscription price" S.S., Los Angeles, CA.

"Since I subscribed, I have bought my 'dream acreage' and have no more than an academic interest in your publication but will continue to subscribe" R.K., Mesa Arizona

Does Government Lands Digest Own Any Of These Properties? None Whatsoever! Government Lands Digest is not in the land speculation business nor are we real estate brokers. All purchases are made direct from the Government office involved. There Are No Middlemen. Our sole function is to inform you what Government lands are available and the minimum price for which they can be bought. We receive no sale commissions nor do we profit from any purchase you might make. Thus, we make no attempt to "push" the land at you with exaggerated claims or high pressure tactics.

How Much Do Government Lands Cost? Would you believe:

- 40 ACRE RECREATION SITES in Minnesota as low as $6.80 per Acre?
- CALIFORNIA RECREATION AREAS as low as $15 per Acre?
- WISCONSIN STATE LANDS for sale at $25 per Acre?
- ALASKA WATERFRONT Vacation Cabins that rent for only $5 per day?
- SURPLUS IDAHO PARCELS for only $20 per Acre?

The land still is plentiful and the prices low because the vast majority of the American public is completely unaware of the many opportunities that exist today in Government land. By taking a few minutes to read this you have already taken the first step toward joining a select, well-informed group. Many Americans dream of owning their own land, but few realize that literally MILLIONS of Acres are available from Federal, State and local Government agencies for almost every conceivable use . . . farming, business, homesites, hunting, fishing, etc.

Are All Government Land Sales Good Buys? Sometimes Government offices release properties for sale that the Government Lands Digest considers as undesirable land. While such properties are usually listed, we are careful to advise you of their various shortcomings. It is the practice of our editorial staff to keep you supplied with accurate information that you can convert into big savings for today and even larger profits for tomorrow.

Who Buys These Properties And Why? Most buyers of Government lands acquire property for their own personal use or for investment gains. Many of these bargains have a recreational and investment potential that is absolutely astounding! Summer cottage sites for family fun and privacy . . . Scenic lands for all season retirement homes . . . Hunting and fishing camps . . . Ideal settings for ski lodges . . . Trailer sites . . . Farms, to work or rent out . . . Large wooded tracts for family camping, hiking and loafing.

Why Haven't Others Cashed In On This? They have! Imagine buying fifty thousand dollars worth of real estate through Government land sales for only $3,000? As recently reported in a nationally advertised book one amateur investor has done just that . . . all in his spare time. That's a saving of more than 90%!

When Can I Start? Right Now. The price for a ONE YEAR Subscription is only $10. That's right. Place your order by simply filling out the coupon below. Mail it to: **Government Lands Digest,** Post Office Box 25561, Seattle, Washington 98125.

We will send you the current issue FREE and an invoice for $10.00 for a full years subscription. If for any reason you don't wish to continue after receiving your FREE issue, simply write "cancel" across the subscription invoice and mail it back within two weeks. No questions asked.

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BONUS OFFER: Check this box ☐, enclose $10 and get 15 issues of Government Lands Digest plus a FREE copy of our copyrighted report "How To Buy Land For Back Taxes". This amazing step-by-step success report tells where you can buy abandoned lands for delinquent taxes and how to get in on the action . . . plus more.

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GLD 1979 CA180

Begins with Symphony Gala

UNC-TV Slates 25th Anniversary Events

A "North Carolina Symphony Gala" will be televised by the University of North Carolina television network on Jan. 8 at 8 p.m. to mark the silver anniversary of the network's birth on Jan. 8, 1955.

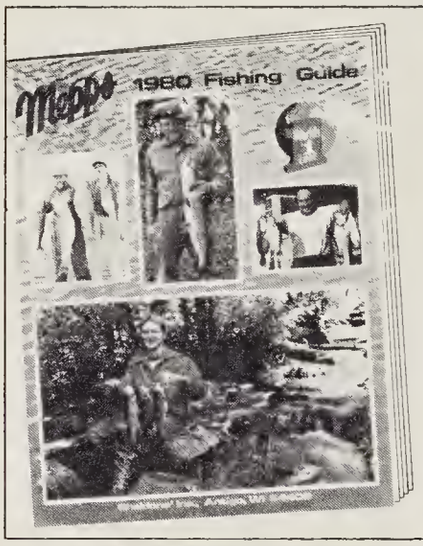
When WUNC-TV, Channel 4, officially signed on that day 25 years ago, it was a bold educational experiment undertaken by the Consolidated University, which then consisted of UNC-CH, State College in Raleigh and Woman's College in Greensboro.

WUNC-TV, the 10th educational television station in the nation to begin broadcasting, reached only 38 percent of the state's population with that first broadcast, a basketball game between Carolina and Wake Forest.

The symphony performance which will launch a year-long series of special programs to celebrate the network's quarter century anniversary, can be tuned in by nearly all of the state's residents for the network now operates eight stations across North Carolina, including WUNC TV.

Other special programming now on the schedule includes:

- Lap Quilting With Georgi Bonesteel. Georgia offers 12 week of instruction on the basics of the craft from cutting and piecing to quilting on a sewing machine Premieres Jan. 6 at 4 p.m.
- Great Decisions 1980, a series of eight half-hour program examining major foreign polic issues now facing the U.S. Noted journalist and commentato Martin Agronsky serves as host Premieres Jan. 20 at 2 p.m.
- The Flight Brothers, a musica about the Wright Brothers which is being co-produced by the Carolina Regional Theatre Scheduled for February.
- A special on economic growth and its environmental conse quences, to be presented in conjunction with the N.C. League of Women Voters. Scheduled for February.
- Yusuf and Friends, a jazz serie featuring Yusuf Salim of Durham who has played with such jaz greats as Billie Holliday and Charli Parker.
- It's Your Business, a four-par series on starting and operating small business. Scheduled for May
- North Carolina: A Self Portrait, a special documentar exploring the state's political and social changes over the past 2 years. Scheduled for May.
- The Woodwright's Shop, series featuring Roy Underhil offering demonstrations on the craft of 19th Century wood working. Scheduled for fall.



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to accept the things
I cannot change,
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things I can,
And the wisdom to know
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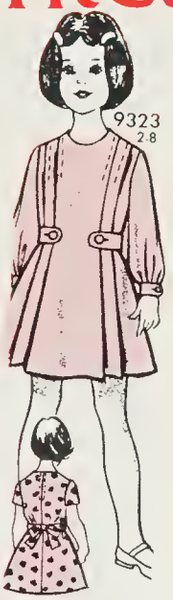

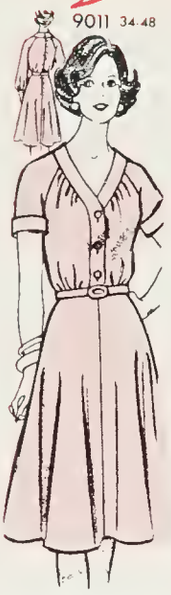

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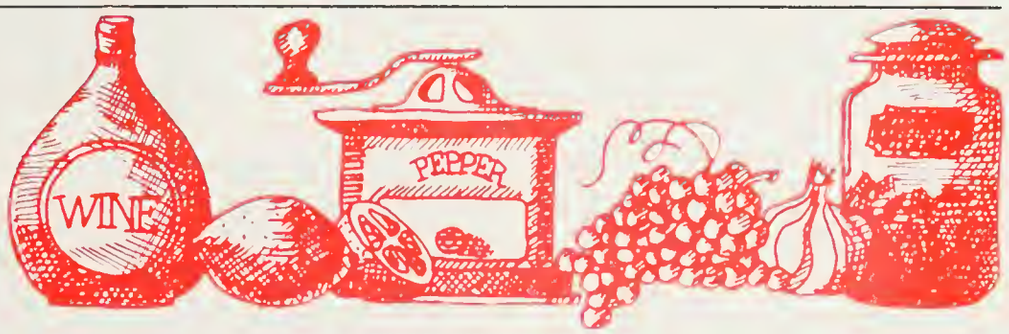
Send $1.75 in cash (no stamps) for each pattern to: CAROLINA COUNTRY, Box 42, Old Chelsea Station, New York, NY 10011. Add 50¢ for first class mail and special handling. Be sure to include your full address, zip code and pattern size.

Country Kitchen



BEEF, TOMATO, CABBAGE SCALLOP

This delicious casserole is a perfect economy dish for the month after Christmas. Mrs. Verl Davis, who submitted the recipe, loves to collect recipes, and she has had this one for about 25 years. It's a delightful change from the traditionally rich foods that all of us have been eating during the holiday season.

If you would like to share a recipe with this column, send it to: COUNTRY KITCHEN, P.O. Box 27306, Raleigh, NC 27611. We pay $5 for published recipes.

COUNTRY KITCHEN RECIPE

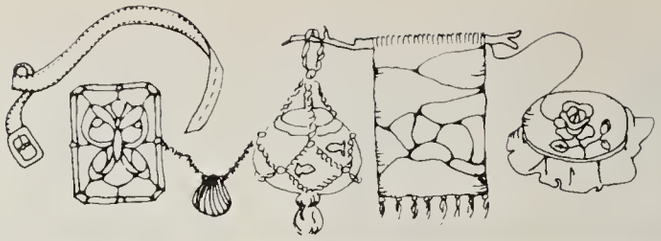
Submitted by Mrs. Verl Davis of Murphy

BEEF, TOMATO, CABBAGE SCALLOP

1 lb. ground beef
2 T. cooking fat
¼ c. chopped onion
1 c. chopped celery
2½ c. canned tomatoes
salt and pepper
4 c. coarsely chopped cabbage
1 c. bread crumbs

Brown meat in fat. Add onions and celery. Blend. Cook 5 minutes. Add tomatoes, season to taste. Blend, bring to a boil. Place alternate layers of meat mixture and cabbage in baking dish. Top with bread crumbs. Bake in moderate oven (375°) 40 to 45 minutes.

Do Your Own Things



Dolls for Decorations

These little dolls are great decorating items because they're inexpensive, unusual, and represent our heritage (early settlers fashioned them after Indian cornhusk dolls). Use doll heads, hands, and feet along with cornhusk bodies to create this adorable grandma and grandpa pair. All the materials you'll need are available at your local hobby shop, even the cornhusks.

Kids enjoy creating their own dolls for holiday display. Elves for St. Patrick's Day, bunnies for Easter, and Clancey the Clown for your child's birthday party are all included plus more.

This 15-page instruction booklet includes step-by-step pictures and directions for each character. You will even learn how to wrap the cornhusks to form a skirt or an overblouse.

To obtain MORE CORNHUSK DOLLS, #HA16, send $2.75 (includes 1st class postage and handling) by check or money order to:

CAROLINA COUNTRY Pattern Dept.
P.O. Box 2383, Van Nuys, California 91409

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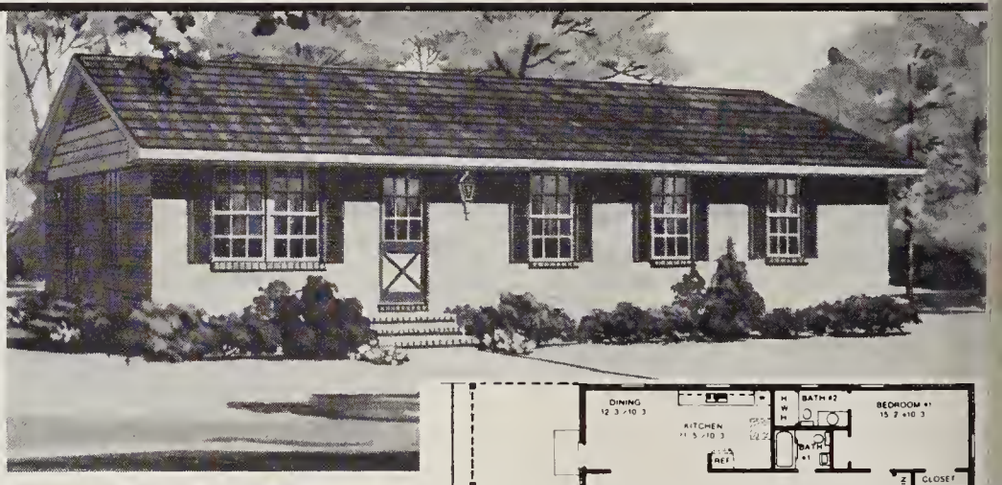
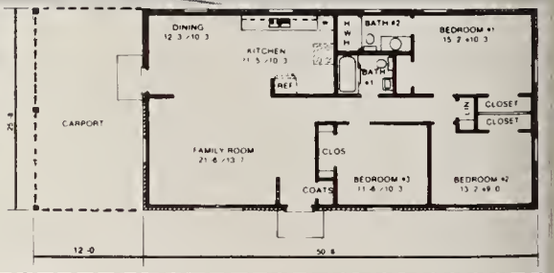


The Madison.



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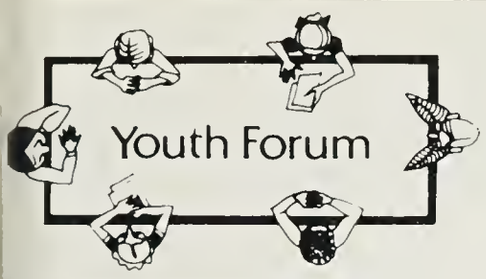

DO YOU THINK THE MILITARY DRAFT SHOULD BE REINSTATED? WHY OR WHY NOT?

This is a free country and I believe that people should be allowed to make up their own minds about how they want to spend a few years of their life that the military may take away. I feel that there are enough people who are interested in joining the military without the draft. If a person is not interested it may ruin his person's life.

Susie Justice Gilkey

Susie is a junior at Rutherford-on-Spindale High School and enjoys softball, water skiing, playing the piano and sewing. She and her parents, Mr. and Mrs. Earl Justice, are served by Rutherford EMC, Forest City.

It should be recognized by all parties that the Volunteer Enlistment System is simply failing to provide adequate numbers of reasonably intelligent men for service in this nation's Armed Forces. The entire U.S. defense establishment is undergoing a manpower shortage of various degrees of severity. In view of how badly the U.S. and NATO are outnumbered in Europe, this situation is disastrous.

But even more serious is the fact that the overall quality of new recruits is down drastically and still falling. Considering the ever-increasing technical sophistication of modern armies, a good educational background is a must for even the simplest tasks.

Bobby Ray Doughtie, Jr. Tarboro

Bobby is a sophomore at Tarboro High School and enjoys collecting current military information and writing on political themes. He and his parents, Mr. and Mrs. Bobby Doughtie, Sr. are served by Edgecombe-Martin EMC, Tarboro.

Although a strong national defense is essential to our security and continued peace, I do not favor draft reinstitution. It is too extreme a step, I feel, in the presence of several reasonable alternatives. For one thing, I think more money should be spent to encourage enlistments; surely this could be arranged with our billion-dollar defense budget. There should also be more benefits for the active members of our Armed Forces so as to motivate longer service.

Paul Allen Fox Taylorsville

Allen is a sophomore at Alexander Central High Schoool and enjoys reading, writing, singing and politics. He and his parents, Mr. and Mrs. Paul Fox, are served by Crescent EMC, Statesville.

NEXT QUESTION: What do you think can be done to curb the ever-increasing rate of inflation we are faced with in our country and in the world today?

If you have a good answer, send it to YOUTH FORUM *Carolina Country,* **P.O. Box 27603, Raleigh, NC 27611 immediately. Tell us a few facts about yourself—your age, school, hobbies, etc. Include your parents' name and the name of the electric membership corporation serving you. If your answer is published, we will send you $5. If you want to submit a question, send it along and for each one used, the sender will receive a $5 check.**

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MAN FINDS $3,000 IN HIS ATTIC.

MINNEAPOLIS (Special) . . . A local man made an unexpected and profitable discovery during a recent move. He dusted off one of his father's old coins, took a pretty plate his wife bought in 1971 for $25, some old stamps, and his son's comic books and tried to sell them. After asking a lot of questions and writing a lot of letters he ended up with $3,000 in his pocket.

Because he had a hard time getting information on collectibles of all kinds, he decided to start a society for collectors that would make it easier for people to learn how to spot a good bargain and make a profit. Right now, he is offering non-members the opportunity to share the same fact-packed collecting kit that has helped many people find a small fortune in their homes. The kit, including the best selling book "Profitable Collecting," is loaded with ideas on how to tell the value of many of your household items, both old and new, as well as what to look for when investing in collectibles.

For a limited time only, this kit is FREE to non-members. Please write to:

Calhoun's Collectors Society, Inc.
Dept. 6YT
Calhoun Center
7275 Bush Lake Road
Minneapolis, MN 55435

At the Smithsonian

Scholars Learn About the Arts

Architecture, film, ballet, classica music, jazz, modern art, photography beauty in nature.

For the 15 high school students wh participated in the second of thre special seminars at the Smithsonia Institution in Washington, D.C. i October, these terms all have new an more personal meanings.

The students spent three days o intensive study on the subject, "Th Quest for Beauty," under the auspice of a pilot program sponsored by th N.C. Association of Electri Cooperatives and the Smithsonian with special aid from the Z. Smit Reynolds Foundation.

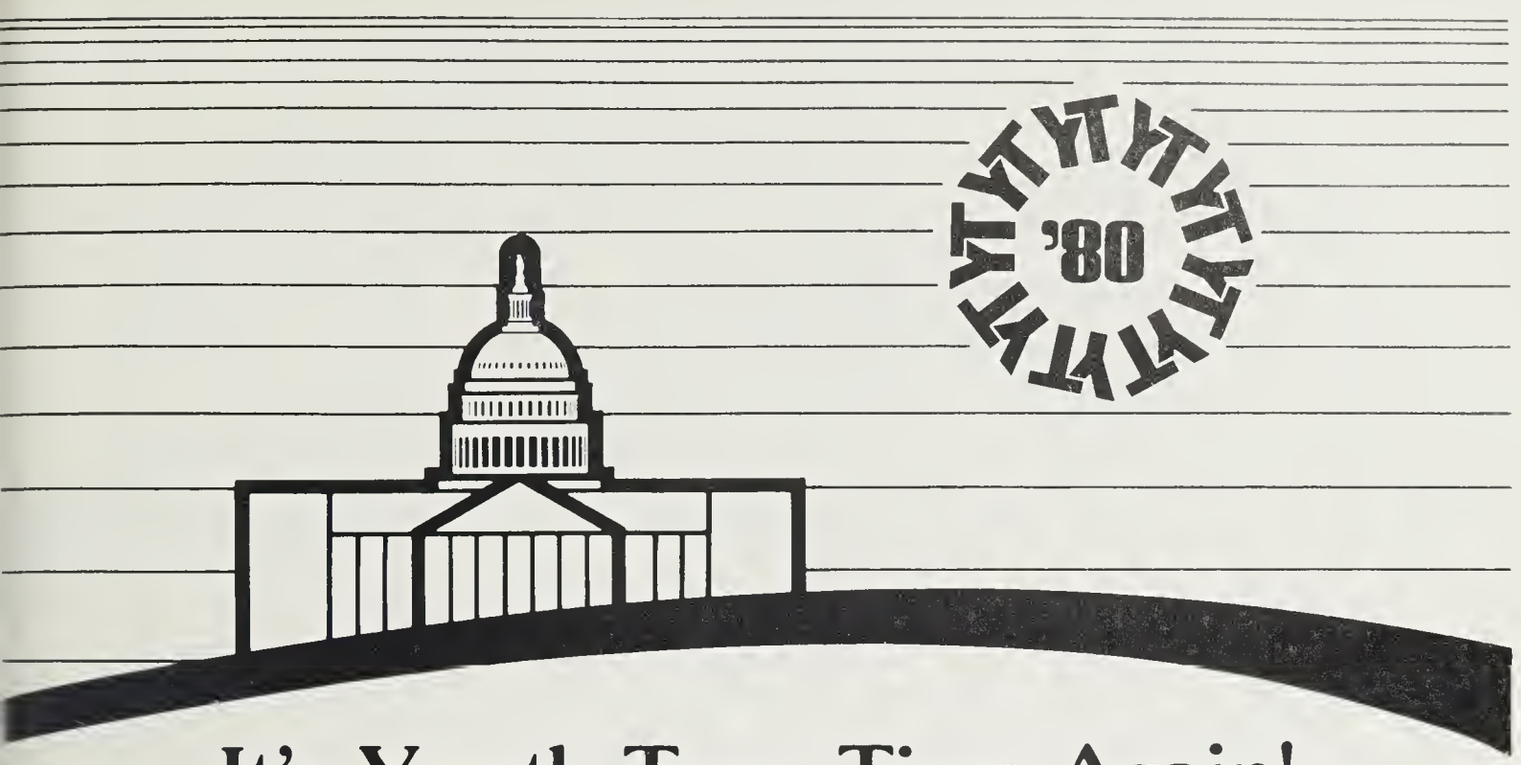
A highlight of the week was a two hour session with Edward Villell premier dancer with the New Yor City Ballet, and a ballet performance few hours later at the Kennedy Cente The students also met with Kje Sandved, a well-known natur photographer, and saw a movie of h work. An illustrated article abou Sandved's latest book was in a recen issue of *Reader's Digest*.

Another favorite of the students wa a demonstration of ancient musica instruments from the Smithsonian collection and a performance of Mozart work on the harpsichord an violin.

Sen. Robert Morgan, who is on th Board of Regents of the Smithsonian took time from a hectic schedule t meet with the young people an discuss a variety of issues, includin the energy situation.

The third seminar in the serie "Human Development: A Zoologica Perspective," is scheduled for April 13 17.

TOP—Edward Villella, premier dancer with the New York City Ballet, taught the young people about the art of dance at the Kennedy Center during a ballet rehearsal. CENTER—Sen. Robert Morgan (D.-N.C.) spent about an hour and a half with the students, discussing the energy crisis. RIGHT—Thomas Lowderbaugh, right, of the Smithsonian staff, gave a fascinating talk on the history of Washington's architecture, using a scale model of the city. (Photos courtesy of the Smithsonian and the Senate Democratic photographer.)



It's Youth Tour Time Again!

Washington, here we come! Between 35 and 40 high school udents from EMC areas across e state will spend an expense- aid week in our nation's capital ne 8-13, learning more about e rural electric program and siting all the famous places that ake Washington the exciting ty that it is.

High school students who live areas where the EMC rticipates in the youth program e eligible to compete for the ance to be part of this citing, once-in-a-lifetime perience.

And that's not all! For e first time, a $1,000 college holarship will be awarded next ar following the Youth Tour, d all 1980 Youth Tourists who e members of their operatives and will graduate in e spring of 1981 will be eligible r this special award.

But back to Washington.

The North Carolina group will part of the nationwide Rural ectric Youth Tour, and will ve the chance to get to know ens from all parts of the untry. Last year, the N.C. udents visited such points of terest as the Smithsonian, Capitol, National Zoo, Library of Congress, FBI, Arlington National Cemetery and Mount Vernon. They visited the White House and met Chip Carter, the President's son (President Carter was preparing for his trip to Austria in connection with the SALT Treaty and was unable to meet with us), went on a boat ride down the Potomac (complete with disco music), and saw a play at the Kennedy Center.

One morning was devoted to learning more about the national rural electric program and hearing an excellent presentation by famous nuclear scientist Dr. Ralph Lapp. The students also met with their congressmen, and several actually saw their congressmen in action, participating in official committee debates.

If you are interested in competing for the opportunity to take part in an expense-paid week in Washington, contact your local EMC right away and find out if they are participating in the program. They'll see that you get an application and will explain their selection procedure.

You'll be glad you did.

1979 Youth Tourists from the Brunswick EMC area met eith their congress- man., Rep. Charles Rose of the seventh district.

MONETARY ILLS CAUSED BY POLITICIANS, BUREAUCRATS

I am outraged that such a piece of elitist balderdash as Jerry Voorhis' "Inflation's Cause: Our Monetary System" would be printed between the covers of *Carolina Country*.

Mr. Voorhis knows as well as I do that the "private banks" do not print money. The printing presses are all owned by the Federal Government. Who but the Federal Bureaucracy in its infinite stupidity would have minted the Susan B. Anthony dollar or would have reissued the two dollar bill? Mr. Voorhis also knows that the "private banks" are anything but "private". They are very public in that they are controlled and regulated by a myriad of Federal agencies and departments as well as the Federal Reserve Board.

Idea Would Eliminate Banks

Surely, Mr. Voorhis must realize that the requirement for banks to retain 100% of their client's money on deposit would eliminate the need for banks altogether. How could a bank make a loan if all monies had to be held on deposit? Where would we borrow money to finance purchases of homes if the banks could not make loans? Mr. Voorhis might recommend that we borrow money to finance our homes from the Federal Government or better yet: That we all should live in public housing projects.

I think Mr. Voorhis knows that there is nothing fundamentally wrong with our monetary system. What is wrong is that our politicians and bureaucrats have learned how to use the Federal budget for their own self-serving purposes. After all, who is kidding whom? I visit Washington, D.C. a dozen or more times each year and I can vouch that the bureaucrats and politicians in Washington, D.C. live very well indeed. They have the finest restaurants, the finest museums and art centers, the most expensive houses and apartments, luxury foreign and domestic automobiles and so on, all of which are ultimately paid for by the taxpayers.

American Dream in N.C.

I look upon North Carolina as one of the few remaining places in which it is almost possible to live the "American Dream". I hope *Carolina Country* will not continue to patronize people like Jerry Voorhis. He belongs in a group with people like Ralph Nader, Barry Commoner, Tom and Jane and Walter Cronkite.

George H. Cadwell, Jr.
Washington

ANTI—NUCLEAR GROUPS' VIEWS ARE OUTLINED

In the November, 1979, issue of *Carolina Country* there appeared a cartoon which made the insinuation that people who express their concerns and objections about irresponsible nuclear pollution are degrading individuals of sorts. In response to that misleading and insulting cartoon, and to some of the letters which also appeared in that issue, I would like to share with other readers who some of the opponents of nuclear power are and what they have to say.

American Academy of Pediatrics

One such group is of the medical profession. The American Academy of Pediatrics has adopted the following resolution: "Whereas children may sustain longterm carcinogenic or mutagenic sequelae (effects) from low-dose radiation exposure, and whereas present methods utilizing nuclear material in medical technology for the generation of power, and in the development of weapons may expose children to increased amounts of radiation, be it resolved that the AAP calls for all possible expediency on the part of the the medical community, the federal government, and all responsible industries to reconsider their current utilization of nuclear material and to better address the inherent risks to our children from radiation."

United Methodist Church

In its energy resolution, the United Methodist Church states that "Christians have a special concern regarding energy use and resources. . ..and refusing to squander earth's resources to the detriment of future generations calls for Christia restraint. We call upon the feder government to discontinue its suppo of nuclear fission reactor-research an development and instead focus i resources upon non-nuclea alternatives, such as solar power. I our opinion, no generation has th right to assume risks in its decisio making which bears heavily upon th potential destruction of the earth as habitable place for futur generations."

Churches of Christ

The National Council of th Churches of Christ in the U.S.A., whic is comprised of thirty denomination some of which are: Methodist, Baptis Episcopal, Friends, Lutheran Moravian Orthodox, Catholi Presbyterian, and United Church Christ, has stated: "We support national energy policy which will n need to utilize nuclear fission. Th result may be irreversible damage the environment and to the huma genetic pool." The NCCC urges eac Christian and each denomination member to seek guidance for a faithf response to the challenge facing us and offers as a suggestion for such response to: "Join with others monitor utility and energy indust regulatory agencies. Monitor loca state and national building code regulations and legislation. Monit utilities and energy companies whic service you or in which you hav stocks. Work to bring busine practices and government regulatio and legislation into harmony with th values of sustainability, fairness an participation."

The North Carolina Association Electric Cooperatives has, through i continued support of nuclea technology, defiled requests an recommendations of Christia Churches, the medical professio scientists, not to mention the public serves. It threatens the creatio destroys the future of our childre and condemns our society to furth pollution by continued discourag ment of clean energy alternatives. promotes property devaluatio through continued contamination additional un-natural man-mad radiation. It is the unethical evil, th baby killers of this generation that t to hide the truths behind graft, lie and cartoons.

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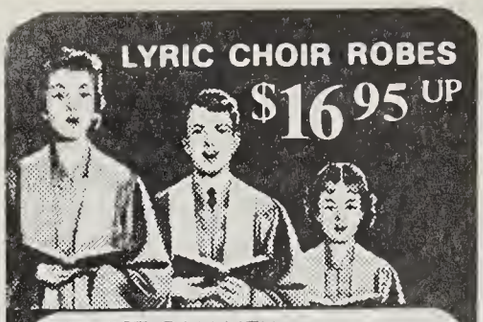

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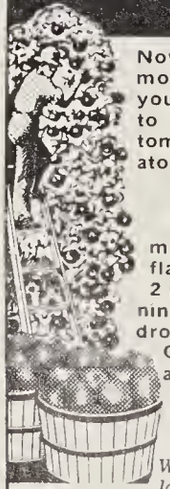

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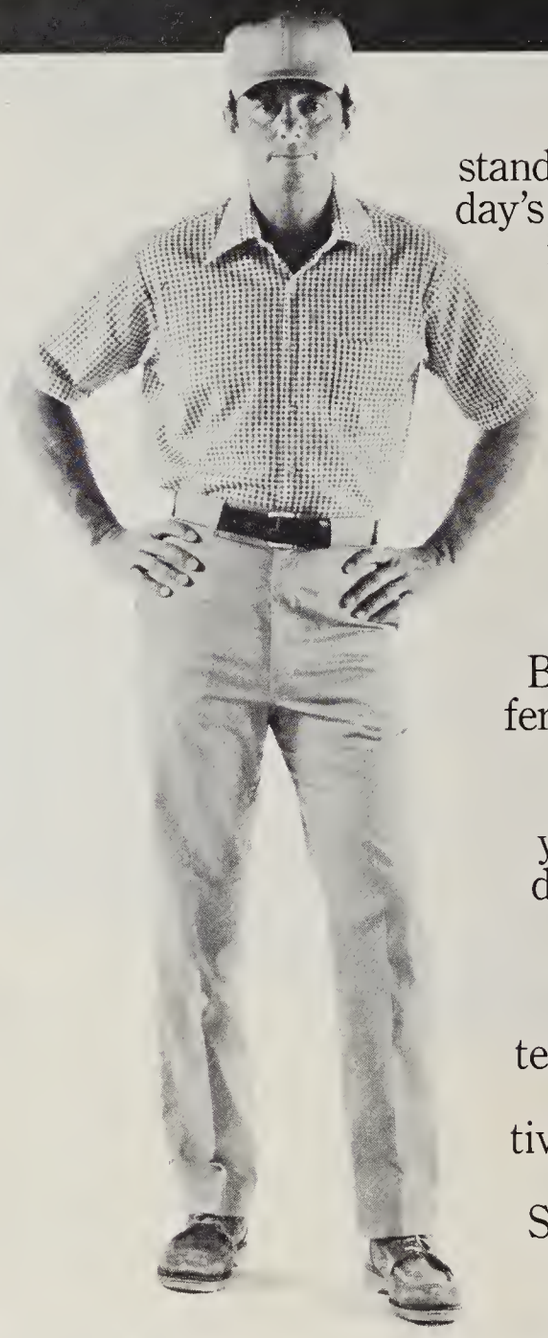

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Dialogue With Farmers May Shape Farm Policy

Gov. Jim Hunt, right, listens as U.S. Secretary of Agriculture Bob Bergland talks with farmers at Fayetteville.

The small farmer in North Carolina and other southeastern states is being run out of business by inflation, poor market prices, high taxes and incredibly high start-up costs.

That's the picture U.S. Secretary of Agriculture Bob Bergland got Nov. 28 at Fayetteville when he spent a day listening to area farmers during a three-week information-gathering sweep across the nation.

He got plenty of questions during the day-long session, attended by more than 1,000 persons from all over the Southeast, but he didn't try to come up with any answers. He said he came here to listen, not talk.

"These hearings mark the beginning of a national public dialogue on the future of agriculture and rural life," Bergland told the crowd, which included many area governmental officials.

"Our goal is to have any recommendations for changes in policy and programs ready for consideration by the time the Congress takes up the 1981 farm bill a little over a year from now. We're out here to listen to all the people."

Bergland was joined for the session by P.R. "Bobby" Smith, assistant U.S. agriculture secretary for marketing and transportation services; Gov. Jim Hunt; N.C. Commissioner of Agriculture Jim Graham and Seventh District Rep. Charles Rose, D-Fayetteville.

The group heard from a variety of speakers, including N.C. Insurance Commissioner John Ingram, agribusinessmen, farmers, students and an environmentalist.

E.B. Mathews, a dairy farmer from Lawrenceville, Va., told Bergland that nowadays profit "seems to be taboo." And, he said, young men and women just can't afford to be farmers anymore. The start-up costs are too high.

That subject drew a response from Gov. Hunt, who suggested that money be set aside to help young prospective farmers get started—even if they have nothing to secure a loan.

"I think we ought to give some thought to that," the governor said, "so that some of these young farmers that don't have assets but a lot of potential can get a start in farming and get on with it."

Bergland pondered a moment, then replied: "You're saying we ought to take risks on them. It's a good idea."

Bergland said one of his top concerns is the steady conversion of farm land to other uses. The country loses about three million acres per year, he said. Some is taken by the expansion of towns and cities and some by government projects such as roads. He said it must stop.

"We're headed for big troubles," he said. "You don't have to be a genius to figure that out. I'm really groping for some advice on what we can do."

Bergland blamed many of the other farm troubles on inflation. "It used to be thought that farmers benefited by inflation—land values went up," he said. "Now, it's everything else, too. This inflation business has got to stop. We're hoping we can find some answers."

The Fayetteville hearing was the second in a string of 10 that carried Bergland from coast to coast. The others were held at Montpelier, Vt.; Huntsville, Ala.; South Sioux City, Neb.; Sedalia, Mo.; Wichita Falls, Texas; Denver, Colo.; Spokane, Wash.; Fresno, Calif. and Lafayette, Ind.

Cerebral Palsy Victim

Hoke Man No Ordinary Farmer

Joe Farmer steadied himself on one crutch and leaned over the fence to scratch the big hog's back. "This is Oscar," Joe said, eyes twinkling and a broad grin spreading across his face. "The one over there is Roger".

"We usually name them after the man we buy boars from" the 38-year-old Hoke County man said. "The hogs don't seem to mind and we never tell the people we buy them from," Farmer chuckled.

Even when the subject of depressed hog prices came up, Farmer maintained the happy, jovial mood as he showed a visitor around his small pork production unit, which was an obvious source of pride and enthusiasm for the farmer.

But Joe isn't an ordinary farmer — although he probably would argue the point. He is severely crippled by cerebral palsy. He didn't walk a step until he was almost nine years old, spent over a year in the Lenox Baker Hospital in Durham in 1951-52, underwent 11 operations and wore casts for 26 weeks during 1951.

"His first step was between two parallel bars," said Joe's father and farming partner, Joe, Sr. "He graduated from that to a heavy brace and crutches and then to the one crutch he uses now."

Joe was the 13th patient admitted to the hospital which now bears the name of the doctor who operated on Joe and got him on his feet.

"Dr. Baker said I was the fightin'est patient he ever had," Farmer said proudly.

It was this grit and determination plus the strong support and love of his mother and father that got Joe on his feet, allowed him to finish high school, to hold an office job briefly and to become a hog farmer.

Joe became interested in raising hogs in 1971. "He always felt he could do anything anybody else could," said his father. "He wanted to do something worthwhile and was always trying. Not a day went by that he didn't ask if he could help me with whatever I was doing. He couldn't, but he never stopped asking."

Phil Ricks, former Hoke County agricultural extension agent, worked with Joe in getting started with his first hogs. "His greatest assets are his sharp mind and his positive attitude," said Ricks, who is now on the Johnston County extension staff.

It was largely through the help of Ricks and his successor in the Hoke Extension Service office, Freddie O'Neal, and the understanding of a representative of the Division of Vocational Rehabilitation that Farmer got started.

The hog unit Ricks designed is for 50 sows, although Joe hasn't been higher than about 30. He sells the pigs when they are around 50 pounds in size, or soon after they are weaned.

The pigs are born in a small farrowing building that Joe's father built from a design worked out by Ricks. It incorporates features that allow Joe to work in it with his physical limitations.

O'Neal, who now is in Jone County, later worked out a flus waste disposal system tha eliminated the most difficult jo the farmer had. "We had t borrow about $1,000 to raise th floor and put in the flush system Joe said, "but it was the be money we ever spent."

The new system has paid off i more pigs saved, also. Without i Joe's herd averaged just over 9 pi weaned per litter. With it, th average weaned litter size is 11. The state average is just over 7.

Wendell Young, Hoke Coun agricultural extension chairma said Joe's was the first flush was system in the county.

"Now we're using it as demonstration unit to show oth small producers what they can with a similar design."

Joe Farmer gives Young, Ric and O'Neal the credit for helpi make him a good pork produc "We couldn't have made without their help and th assistance from Vocation Rehabilitation," Joe said.

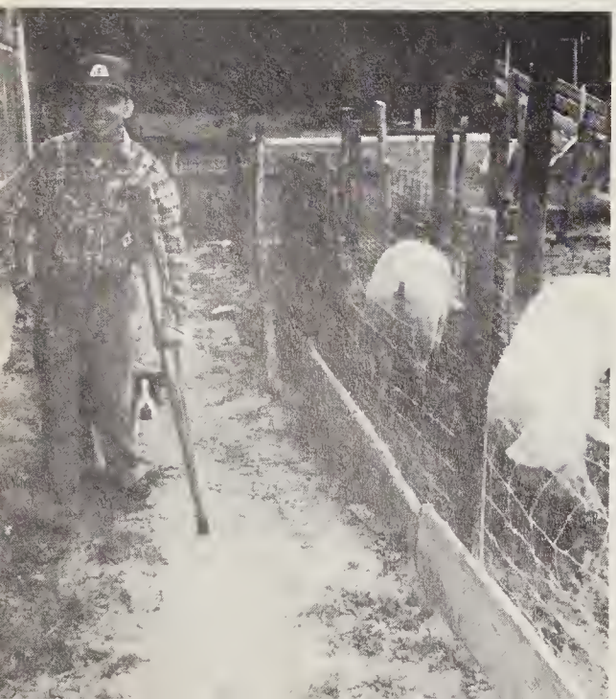
Young said Farmer has becon one of the strongest supporters f the pork industry in Hoke Coun "He's interested in not just h operation but everything th affects the welfare of th industry," the extension chairm said. "He goes to educatio meetings, reads everything he c find on hogs and calls us regula when questions come up."

Despite depressed hog pric Farmer is planning for the futu He and his father have a nurse building about 70 perce completed. "We don't owe a ce on it, although we have slow down on it until pig prices pi back up," said Joe, ever t optimist.

Said Young, "This is more th just another hog operation. It h made it possible for a man to fe that he is earning his own way the world. There's no substitute r that." □

Text and photo by Woody Upchurch, NCSU Agricultural Information.

Joe Farmer's making his own way, raising pigs.



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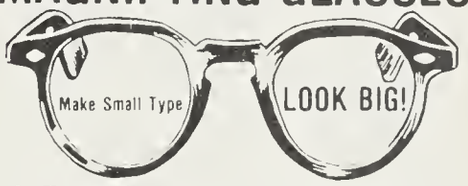

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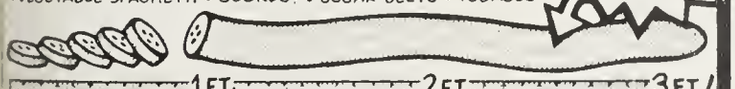

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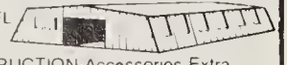

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Keep these tips in mind while u're cooking my simple stew, any other recipe during these ld January days.

GRANNY'S SIMPLE STEW

2 lbs. beef stew meat, cubed
1 can of tiny peas
1 cup of sliced carrots
2 chopped onions
1 teaspoon salt, dash of pepper
1 can cream of tomato soup thinned with 1/2 can water
1 big raw potato, sliced
1 bay leaf

Mix these ingredients up in a casserole dish that has a tight-fitting lid, and put in a 275° oven.

Now go to work, shopping, or to bed, and the stew will cook all by itself in five hours. (And I guarantee you, it will taste like you fussed over it all day.)

Look for my February column, when I'll be serving up another simple and tasty recipe for all you busy folks out there.

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